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Climatological Data



HAWAII AND PACIFIC

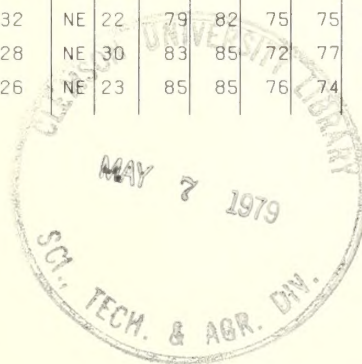
TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	91	DATE	09+	
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	19	DATE	21+
GREATEST TOTAL PRECIPITATION:	KUKAIAU 222	HAWAII	60.44		
LEAST TOTAL PRECIPITATION:	MAHANA 694	LANAI	.08		
GREATEST 1 DAY PRECIPITATION:	KUKAIAU 222	HAWAII	12.98	DATE	15

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	37	NE	09	-	76	76	86	4	12	8	3	1	0	28	47	7.4	
HILO WSO 87 AP	2	0.9	6.6	26	SE	09	86	84	73	85	1	1	9	3	3	6	23	43	7.0	
HONOLULU WSO 703 AP	7	8.8	12.9	34	NE	14	84	83	66	76	9	4	5	2	1	0	21	55	5.9	
JOHNSTON WSO AP	7	18.8	21.3	42	NE	13	82	81	72	81	8	10	2	1	0	0	21	69	4.2	
KAHULUI WSO 398 AP	6	9.0	13.7	41	NW	11	-	81	67	78	3	2	3	3	3	0	14	56	5.1	
KOROR WSO	5	6.8	8.9	22	N	13+	86	88	79	73	1	8	9	2	3	0	23	61	8.5	
KWAJALEIN MISSILE RGN	-	-	-	48++	26	04	83	82	76	80	7	8	5	2	1	2	25	-	8.1	
LIHUE WSO 1020.1 AP	6	9.5	14.7	33	NE	14	78	78	65	74	4	10	6	0	2	0	22	47	5.9	
MAJURO WSO AP	7	12.7	13.5	34	E	02	81	83	77	79	7	9	5	0	2	1	24	68	9.0	
PAGO PAGO WSO AP	9	2.9	10.3	33	W	12	88	89	77	82	0	7	7	10	1	1	26	25	8.6	
PONAPE WSO	-	-	-	19	NE	21	82	84	75	76	4	4	8	5	2	0	23	26	8.5	
TRUK MOEN I. WSO AP	6	10.3	11.6	32	NE	22	79	82	75	75	7	8	3	2	2	1	23	39	9.5	
WAKE ISLAND WSO AP	8	10.4	12.6	28	NE	30	83	85	72	77	5	10	6	1	0	0	22	62	5.7	
YAP WSO AP	7	7.7	9.6	26	NE	23	85	85	76	74	4	12	7	2	0	0	25	87	7.6	



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Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JANUARY 1979

STATION		TEMPERATURE											PRECIPITATION															
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS						
											MAX.	MIN.							TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
												30° OR HIGHER	32° OR HIGHER	32° OR BELOW														
HAWAII																												
ISLAND OF KAUAI																												
ANAHOLA 1114	A													4.30		1.07	12		0									
KANALOHULU 1075		60.6	48.0	54.3		68	15	37	2		0	0	0	8.05		1.36	14		0			15	6	2	0			
KILAUEA POINT 1133											0	0	0	3.11		.94	12		0				2	0				
KOLOA 936	A													6.49					0									
LIHUE WSO AP 1020.1	//R	79.1	67.3	73.2	2.0	85	18	60	2		0	0	0	4.77	- 1.47	1.76	9		0			8	2	2				
MANA 1026														.89	- 4.05	.31	10		0									
N WAILUA DITCH 1051	A													14.10					0			3	0	0				
PA WAINIHA 1115														10.74	- 2.27				0									
PUEHU RIDGE 1040														1.40	- 5.23	.61	10		0			4	1	0				
WAIHAWA 930	A													3.24	- 2.56				0									
WAIHAI LOWER 1054		74.3	59.0	66.7		79	7	51	2		0	0	0	10.38	- .20	1.53	12		0			20	7	3				
WAIHIA 947		78.4	60.9	69.7		83	27*	55	2		0	0	0	.96	- 3.62	.53	12		0			2	1	0				
ISLAND				66.0										5.70					0									
ISLAND OF OAHU																												
ALOHA STADIUM-HALAWA B Y U LAIE 903.1		77.0M 78.1	64.0M 65.1	70.5M 71.6		82 84	9 9	56 59	2 10*		0 0	0 0	0 0	4.82 7.55		1.22 2.03	12 12		0 0			10	5	2				
HONOLULU OBSERV 702.2														3.68		1.55	12		0			7	2	1				
HONOLULU WSO 703 AP KANE OHE MAUKA 761	R	76.5 74.4	63.2 65.9	69.9 70.2	- 2.4 -.9	81 78	27 19*	57 62	3* 22*		0 0	0 0	0 0	4.57 14.61	.17 6.72	1.87 5.00	11 12		0 0			8 14	3 6	1 5				
KODIAU DAM 833	A													18.04		2.76	13		0			21	13	6				
MANOA LYON ARBORETUM NUUANU RES 4 783		73.7	61.8	67.8		82	6	56	3		0	0	0	19.80		4.70	13		0			16	7	6				
OPAEULA 870														14.94	5.18	5.26	11		0			11	7	5				
PAOLO VALLEY 718	A	73.9M	62.3M	68.1M	1.3	79	9	59	13*		0	0	0		19.12	8.27	6.08	13		0		14	7	5				
WAIHOLE 837	A													16.00		4.38	12		0									
WAIKALEE 896.3		75.1M	65.1M	70.1M		83	9	59	14		0	0	0	5.00		1.77	12		0			8	2	2				
WAIKALUA 847	A	75.4M	60.1M	67.8M	- 2.3	82	10	54	3		0	0	0	5.80	.81	1.68	12		0			9	5	2				
WAIKIKI 717.2		79.5	64.6	72.1		83	27	57	3*		0	0	0	6.14		1.19	13		0			9	5	3				
WAIMANALO EXP FM 795.1														10.37		4.40	12		0			9	5	4				
WAIPIHU 750	A													2.92		.88	12		0			2	0					
ISLAND				69.8										10.22					0									
ISLAND OF MOLOKAI																												
MOLOKAI AP 524																												
ISLAND																												
ISLAND OF LANAI																												
LANAI CITY 672	A	69.6	57.8	63.7	- 2.1	76	30*	54	29*		0	0	0	7.86	1.92	3.10	12		0									
ISLAND				63.7										7.86					0									
ISLAND OF MAUI																												
HALEAKALA B E S 434	A													31.09		5.12	22		0			13	10	10				
HOLEAKALA R S 338		55.7	38.9	47.3	- 3.7	67	8	33	24		0	0	0	33.70	25.47	7.78	14		0			12	11	9				
HANA AIRPORT 355																												
HONOKOHUA 493	A													5.52		2.00	12		0			10	4	2				
KAAHAPALI AP 453.1		77.1	63.2	70.2		81	28*	58	12		0	0	0						0									
KAHULUI WSO 398 AP	R	78.2	64.0	71.1	-.6	84	9	57	4*		0	0	0	7.18	3.59	1.76	11		0			9	6	3				
KAILUA 446		M	M	M		83	10*	57	2		0	0	0	26.27	17.16	9.00	12		0									
KEANAE 346	A													39.20					0									
KIPAHULU 258														11.17	1.75	2.12	23		0			14	9	4				
KULA SANATORIUM 267		67.6M	51.0M	59.3M	- 2.2	78	11*	47	2*		0	0	0	4.13	- 1.51	1.20	12		0			6	4	1				
LAHAINA 361		80.6	63.1	71.9	.4	84	1	55	8		0	0	0	3.61	-.09	1.48	12		0			6	4	1				
PAJA 406														10.24	6.23	2.72	12		0			11	6	5				
WAILUKU 386	A													8.52	3.64	2.73	12		0									
ISLAND				64.0										16.42					0									
ISLAND OF HAWAII																												
HAWAII VOLCNS NP HQ 54	R	64.0M	48.7M	56.4M	- 1.5	72	7	43	7		0	0	0	22.70	12.09	6.30	23		0									
HILO WSO AP 87	A	77.0	62.5	69.8	- 1.4	91	9*	58	31		3	0	0	32.24	23.17	5.20	15		0			21	12	9				
HUEHUE 92.1																												
KAINALIU 73.2		75.6	58.7	67.2		80	11*	54	3		0	0	0	2.36	- 1.71	1.23	17		0			4	1	1				
KAPOHO BEACH 93.11		78.2	64.0	71.1		84	9*	60	7*		0	0	0	18.63		6.22	15		0			14	7	5				
KEAU 92														38.17		7.30	15		0									
KUKUIHALE HIC 199														36.63		7.15	14		0									
KULANI CAMP 79		59.8M	41.5M	50.7M		69	9	32	7		0	0	1	30.20	30.93	7.50	17		0			15	12	9				
PAHALA 21	A													1.99		.77	23		0			4	1	0				
PUUKOHOLA HEIUA 98.1		84.3	M	M		88	22*	57	28		0	0	0	.51		.27	14		0			1	0	0				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JANUARY 1979

STATION	TEMPERATURE											PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
										90° OR ABOVE	32° OR ABOVE	32° OR BELOW	0° OR BELOW	MAX.					MIN.	TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
HAWAII SOUTH KONA 2.31 WAIKAKA SCD 88.2 ISLAND	71.4	54.6	63.0 63.0		77	10	50	19+		0	0	0	0	.74 54.02 21.65		.29 9.64 15	1 15	.0 .0 .0	0 0 0	3 21	0 16	0 11				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JANUARY 1979

STATION		TEMPERATURE										PRECIPITATION															
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS					
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE			
											30° OR ABOVE	40° OR ABOVE	50° OR ABOVE	60° OR ABOVE													
PACIFIC																											
■ ■ ■ EAST OF 180TH MERIDIAN																											
ATU'U																											
CANTON ISLAND		87.5M	76.1M	81.8M		90	22+	72	13		5	0	0	0	21.93		3.09	2		.0	0		18	14	8		
FALEASAO VILLAGE															14.58		2.91	24		.0	0						
JOHNSTON IS WSO AP		R 79.4	71.9	75.7	- 1.1	81	9+	67	12+		0	0	0	0	25.02		2.72	1		.0	0		25	18	9		
FRENCH FRIGATE SHOALS															1.51	- 1.08	.86	10		.0	0		3	1	0		
MIDWAY SAND ISLAND		72.2	63.5	67.9	2.2	76	20+	57	8		0	0	0	0	6.32	1.65	1.61	27		.0	0		11	4	3		
MALAELOA															14.54		1.78	3		.0	0		19	11	5		
PAGO PAGO WSO AP		R 86.1	75.8	81.0	.7	89	5	72	21+		0	0	0	0	12.70	.43	2.17	7		.0	0		19	12	2		
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12° N																											
AGAT															7.14		.89	11		.0	0		15	8	0		
ANDERSEN AFB GUAM		80.2	74.7	77.5	- .7	82	18+	72	5		0	0	0	0	4.89	-.02	1.71	10		.0	0		10	2	1		
CLARK AFB LUZON																											
DEDEDO															5.91		1.91	13		.0	0		11	4	1		
GUAM NAS		83.7	76.1	79.9	.5	86	12	74	28+		0	0	0	0	2.71	- 1.85	.66	12		.0	0		8	1	0		
GUAM WSMO		R 83.2	71.5	77.4	.1	85	18+	65	20		0	0	0	0	5.60	.44	1.22	10		.0	0		12	4	1		
INARAJAN AG STN															6.40		1.89	11		.0	0		10	4	3		
INARAJAN - NASA		84.7	71.0	77.9		86	6	62	5		0	0	0	0	5.37		1.63	10		.0	0		8	3	2		
MANGILAO															3.64		1.30	13		.0	0		7	2	1		
ROTA																											
SAIPAN LORAN															6.48		3.73	11		.0	0		9	2	1		
UMATAC															2.28		.64	8		.0	0		7	1	0		
YIGO		R 81.5	73.3	77.4	.4	84	23+	68	31		0	0	0	0	3.99	1.20	1.06	13		.0	0				1		
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																											
ENEWETAK																											
FALALOP I ULITHI ATOLL																											
KAPINGAMARRANGI ATOLL		R 87.8	74.9	81.4	-.2	90	19	73	22+		1	0	0	0	6.98	- 3.81	1.10	26		.0	0		14	5	3		
KOROR WSO		85.4	76.7	81.1	-.1	87	30+	68	4		0	0	0	0	10.73	6.99	3.69	4		.0	0		10	5	3		
KWAJALEIN MISSILE RGN		R																									
LELE I KOSRAE		R 85.8	76.5	81.2	.4	89	8	70	2		0	0	0	0	6.78	- 2.18	2.70	2		.0	0		8	3	3		
MAJURO WSO AP		86.1	75.1	80.6		90	12+	72	29+		3	0	0	0	6.64		1.40	9		.0	0		13	4	2		
METALANIM															7.71		2.00	27		.0	0		11	4	3		
NGASANG-BABELTHUAP		R 87.8	75.5	81.7	1.1	92	8	69	5		3	0	0	0	8.16	- 3.59	1.46	9		.0	0		15	7	2		
PONAPE WSO																											
SATAHAN ATOLL																											
TRUK MOEN I WSO AP		R 86.2	77.6	81.9	.9	89	11+	75	25+		0	0	0	0	7.69	- .90	2.56	25		.0	0		8	5	3		
WOLEAI ATOLL																											
YAP WSO AP		R 86.9	74.1	80.5	.1	88	26+	70	24+		0	0	0	0	3.88	- 4.56	.95	21		.0	0		9	2	0		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JANUARY 1979

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	4.30	x	x	x	.35	x	x	.28	.03	.43	.57	1.07	x	x	.52	.03	.04			.03	x	x	.50	.03	.12	.03	x	x	.12	.13	.02		
BOYDESBORO STA 985	A	5.28	x	x	x	.07	.01	x	.03	.23	.67	.01	.67	x	x	1.84	.20	.08	.06		.01	x	x	.58	.08	.03	.08	.02	x	x	.08	.08	.44	
EAST LAHA 934	A	6.50	x	x	x	.06			.05	.30	.75	.80		x	x	1.88	.30	.13	.03		.01	x	x	1.67	.05	.15	.20	.05	x	x	.08	.04	.15	
ELELE 927	A	-	x	x	x	.01	-	-	.12	.42	.02	.62	x	x	x	.60	.05	.02	T		.02	x	x	.20	T	.01	.02	T	x	x	.02	.01	.06	
HAUULA 1110	A	4.83	x	x	x	.46	x	x	.21	.03	.48	.68	1.23	x	x	.57	.07	.05			.05	x	x	.55	.04	.12	.07	x	x	.12	.10			
HALEMANAH 1006	A	6.65					x	x	.14	.36	1.31	.08	.98	x	x	1.91	.33	.15	.18		.05	x	x	.48	.26	.14	.09	.03	x	x	.11	.05		
HANALEI TUNNEL 1053	A	18.40	x	x	x	x	x	x	x	x	.55	.05	.40	x	x	x	.24	.34	.03		x	x	x	x	x	x	x	x	x	x	x	16.40		
HUKIHO 945	A	11.58	x	x	x	.08	.03	x	.34	.41	1.15	.24	1.74	x	x	1.04	.80	.64	.73		.41	x	x	1.38	.23	.46	.18	.29	x	x	.58	.44	.41	
ILIILUULA INTAKE 1050	A	28.22	x	x	x	1.84	x	x	.21	x	2.03	1.58	x	5.00	7.52						x	x	x	5.39	x	x	1.18	x	x	x	.10	x	x	
INTAKE WAINIHA DC 1086	A	11.58	x	x	x	.08	.03	x	.34	.41	1.15	.24	1.74	x	x	1.04	.80	.64	.73		.41	x	x	1.38	.23	.46	.18	.29	x	x	.58	.44	.41	
KANAHULUHULU 1075	A	8.05	x	x	.15	.01	.37	.02	.09	.20	1.05	.40	.78	45	1.36	.80	.20	.26			.19	.65	.58	.30	.02	.05				.09	.02	.01		
KANEHA RESERVOIR 1092	A	8.54	x	x	x	.48	x	x	.68	.14	1.04	.75	1.82	x	x	1.20	.10	.11	.12		.05	x	x	.83	.32	.23	.16	.03	x	x	.24	.13	.11	
KEALI 1112	A	4.51	x	x	x	.34	x	x	.30	.05	.57	.64	1.30	x	x	.36	.08	.03			.02	x	x	.36	.02	.15	.14	x	x	x	.05	.10		
KEKOA 944	A	5.08	x	x	x	x	x	.06	.22	x	.04	.08	1.20	.72	.12	.85	x	.11	.12	.10	x	.02	.51	.25	.09	.04	.06	x	.01	.18	.09	.16	.05	
KILAUEA 1134	A	5.08	x	x	x	x	x	.06	.22	x	.04	.08	1.20	.72	.12	.85	x	.11	.12	.10	x	.02	.51	.25	.09	.04	.06	x	.01	.18	.09	.16	.05	
KILAUEA POINT 1133	A	3.11	x	.06	x	.09	.01	x	.08		.18	.68	.94	x	x	.33	.02	.07	.02		x	x	.19	.12	.06	.02	.02	x	x	.16	.06			
KILO 1033	A	.81	x	x	x	.14	x	x	.10	.17	.68	.34		x	x	.23	.31	.09	.02		.03	x	x	.98	.06	.13	.24	x	x	x	.06	.01	.13	
KILOA 936	A	6.49	x	x	.12	x	x	x	.15	.41	.71	.02	.90	x	x	.32	.31	.09	.02		.03	x	x	.98	.06	.13	.24	x	x	x	.06	.01	.13	
KILOA LN (HKS) 940.1	A	3.31	x	x	x	x	x	x	.81	.36	.03	.58		38	.32	.41	.11	.16			.05	.09	x	x	.98	.06	.13	.24	x	x	x	.06	.01	.13
KILOA MAUKA 994	A	7.13	x	x	.17	x	x	x	x	.91	.78	x	x	x	x	x	3.23	.23	x		x	x	x	1.03	.25	x	x	x	x	x	x	.49	.03	
KUKUIULA 935	A	5.25	x	x	x	.10	x	x	.08	.40	.58	.64		x	x	1.83	.16	.07			x	x	.85	.08	.05	.16	.01	x	x	x	.11	.01	.12	
LIHUE VICTORY ST 1062.1	A	7.46	x	x	x	.04	x	x	.20	.95	.55	.85	.85	x	x	1.50	.24	.34	.18		.05	x	x	.58	.30	.25	.02	x	x	x	.05	.20	.30	
LIHUE 1020	A	5.53	x	x	x	x	x	x	.12	.78	1.00	.77	1.27	x	x	.73	.05	.10	.05		x	x	.48	.01	.08	.07	x	x	x	.02				
LIHUE WSO AP 1020.1	A	4.77	x	x	x	.11	.03	x	.21	1.76	.14	1.40	.16	.01	.38	.05	.05	.06		T	.05	.16	.01	.03	.05	.01			.01	T	T	T		
MAKALEI 965	A	1.72	x	x	x	.02	x	x	.12	.30	.52	.01	.54	.01	.10	.02	.01						.05			.01						.01		
MAKALEI 1026	A	.89	x	x	.05	.04	x	x	.31	.21	.26																				.02			
MAKALEI UPS CROSS 1083	A	3.57	.65	x	x	.08	x	x	.35	1.48	x	x	x	1.48	3.85	.06						x	1.03	x								.42	x	
MAKALEI 1445	A	28.89	x	x	x	x	x	x	.47	1.38	.12	3.15	1.78	1.89	3.78	.21	.91	.31	.16		.35	1.65	1.14	2.83	1.38	.59	.24	.43	.67	1.38	1.06	.98	.63	
MAKALEI 1035	A	1.06	x	x	x	x	x	x	.66	.50																								
M. WAILUA DITCH 1051	A	14.10	x	x	x	x	x	x	.80	1.35	1.09	.66	1.76	x	x	2.80	.62	.09	.07		.24	x	x	1.48	.39	.50	.20	.13	x	x	.79	.53	.50	
M. WAILUA RIVER 1055	A	11.40	x	x	x	x	x	x	.47	.18	1.02	1.80	1.34	x	x	3.06	.19	.24	.12		x	x	.22	x	x	1.29	T	x	x	.05	.21	.08		
PN. WAILUA 1115	A	10.74	x	x	.40	x	x	x	.57	.72	.58	1.11					1.16	.06			x	x	.46	.53	.16	.11	.07				.42	.30		
PRINCEVILLE RANCH 1117	A	5.72	x	.04	.16	x	x	x	.26	.30	.58	1.11									x	x	.46	.53	.16	.11	.07							
PUHEU RIDGE 1040	A	1.40	x	x	x	x	x	x	.16	.11	.61	.48				.04																		
PUNI 1013	A	6.27	x	x	x	x	x	.13	.46	1.48	.27	1.35	x	x	.94	.28	.15	.08		.04	x	x	.64	.19	.08	.15	x	x	x	.03				
WAILUA 930	A	3.24	x	x	.02	x	x	.02	.23	.47	.01	.68	x	x	.92	.12	.03				x	x	.42	.06	.02	.13	.01	x	x	T		.10		
WAILUA LOWER 1054	A	10.38	x	x	.03	.03	.13	.08	.72	1.24	.19	1.53	32	.60	1.37	.75	.28	.18		.08	.07	.81	.19	.31	.24	.14	.05	.21	.19	.38	.28			
WAILUA UPPER 1052	A	10.08	.01	.01	.02	.05	.09	.04	.19	1.00	.07	1.53	.23	.50	.81	.68	.51	.44		.19	.08	.88	.37	.14	.33	.11	.41	.04	.41	.28	.37	.27		
WAILUA 943	A	.89	x	x	x	x	x	.08	.43	.03	.35																							
WAILUA KAI 1055	A	5.39	x	x	x	.09	x	x	.16	.51	.94	.50	1.15	x	x	.93	.16	.04	.03		.04	x	x	.46	.06	.02	.13	x	x	x	.06	.08	.04	
WAILUA 947	A	7.46	x	x	.96	x	x	x	.08	.35	x	1.51		x	x	.35																		
WEST LAHA 931	A	4.67	x	x	.04	T	x	.04	.18	.39	.01	.66	x	x	.93	.21	.05	T		x	x	x	.80	.16	.04	.21	x	x	x	.02		.13		
ISLAND OF OAHU																																		
ALPHA STADIUM-HAWAII	A	4.82	x	x	T	x	x	.18	.76	.23	1.22	x	x	1.03	T	T	.02			x	x	1.19	.06		T	T	x	x	.04	T	.08			
BETTERMAN PUMPING STA	A	6.73	x	x	T	T	T	.03	.05	.73	1.80	2.03	.76	.67	.37	.07	T	.02			x	x	1.62	.01	.01	T	T	x	x	T	.03	.04		
B. Y. U. LAKE 903.1	A	7.55	x	x	T	T	T	.03	.05	.73	1.80	2.03	.76	.67	.37	.07	T	.02			x	x	1.62	.01	.01	T	T	x	x	T	.03	.04		
CAMPBELL IND PK 702.5	A	2.27	x	x	T	T	T	T	.20	.56	1.20		.15	.07	T	.01	T			.04	.01	.03	.04	.01										
COCONUT ISLAND 840.1	A	6.66	x	.07	.06	.01	x	x	.28	.95	.90	2.35	x	x	1.24	.17	T	T		x	x	.48	x	.02	.02	.01	x	x	x	.03	.07			
EWING PLANTATION 741	A	3.05	x	x	x	x	x	.14	.75	.18	1.14	x	x	.69	.01					x	x	.14												
HONOLULU OBSERV 702.2	A	3.68	x	x	x	x	x	.11	.65	.35	1.55	.43	.11	.05	.02					.28	.07	.05				.01	T	T	T	T	T			
HONOLULU WSO 703 AP	A	4.57	x	x	.10	x	x	.03	.59	.19	1.87	.05	.45	.03	.01	T	T	T		.30	.61	.13	.31											
KAEHA POINT 841.3	A	6.94	x	x	.10	x	x	.10	1.70	1.35	.05	2.40	x	x	.81	.60	.12	.01		.05	x	x	.24											

DAILY PRECIPITATION

HAWAII AND PACIFIC
JANUARY 1979

TOTAL	DAY OF MONTH																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
3.16	x	x	x	x	x	x	x	x	69	x	x	x	x	x	2.25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.22		
3.49	x	x	x	x	x	x	x	x	x	1.19	x	x	x	x	x	x	x	x	x	x	2.30	x	x	x	x	x	x	x	x	x	x		
31.09	09									1.08	.25	4.80	1.85	5.10	2.57	2.50	1.77	.02	.47	1.66	5.12	3.35	.01	.02	.02	.02	x	x	x	.02	.27		
21.18	x	x	x	x	x	x	x	x	x	1.34	.20	3.24	x	4.82	1.24	1.66	.80	x	x	x	5.34	2.43	x	x	.06	x	x	x	x	x	.05		
33.70										.19	.72	2.52	2.07	7.78	2.66	2.45	2.22			.55	2.62	5.87	3.82								.03		
14.85	T				T	T				1.20	.50	2.68	1.53	2.50	.51	.86	.22	.13		.01	.07	.38	2.33	.61	.02	.01	.11	.30	.10	.30	.13	.35	
2.45	x	x	x	x	x	x	x	x	x	x	x	2.45	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
39.20	x	x	x	x	x	x	x	x	x	.85	.05	2.00	.15	1.02	.10	.15	.03	T		.14	.17	.71	.15	x	x	x	x	x	x	x	T	39.20	
5.52	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	33.10	
33.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
7.18									.06	.97	1.76	1.01	1.43	.08	.20	.18	T	.23	.70	.56	x	x	x	x	x	x	x	x	x	x	x	46.87	
73.05	x	x	26	19	x	x	x	x	x	.55	1.70	8.00	x	x	5.90	1.45	.84	.30	.05	x	4.20	.20	.19	.13	.09	x	x	x	x	x	.98	.32	.18
26.27	x	x	18	.01						x	x	x	x	x	x	x	x	x	x	x	7.30	x	x	x	x	x	x	x	x	x	x		
15.90	x	x								1.56	.35	2.55	.53	1.47	.19	.30	.08	T	.22	.32	1.08	.70	T										
9.36	01																																
39.20	x	x	22							x	x	x	x	x	x	23.50	.13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.50	
3.17										.49	.07	1.38	.18	.49	.03	.09					.40	.03											
5.23										1.26	.44	1.56	x	x	x	x	1.31	x	x	x	.57	.09											
11.17									.41	1.25	.70	.60	.97	1.30	1.18					.40	.52	.86	2.12						.20	.32	.16	.08	
4.13		02				03				.60	.68	1.20	.36	.70	.04	.03	.05				.34	.08											
3.61										.90	.12	1.48	.90	.12	.52					.55	.02												
17.24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	17.24	
2.45										.17	.35	.60	x	x	.65	.10	x	x	x	x	.50	.08											
48.80	x	x	22	20						x	x	x	x	x	x	x	x	x	x	x	4.00	x	x	x	x	x	x	x	x	x	x	22.70	
12.31										1.05	.40	2.40			3.95	.87	.52			2.05	.65									.32			
39.36	x	x	53							.66	x	x	x	x	x	22.60	x	x	x	x	x	15.00	x	x	x	x	x	x	x	x	x	.57	
2.69										.45	.05	.45	.63	.05	.02					.93	.11												
x	16				x	.08				26	1.9810	.80	x	7.00	4.60	2.04	1.75	.26	x	x	4.70	.94	x	x	.58	x	x	x	x	1.85	x		
10.24	x	x	x	x	x	x	x	x	x	1.14	.48	2.72	1.03	1.56	.27	.50	.13	.05	T	.06	.33	1.42	.38	T	T	T	T	T	T	T	T	.05	
3.66										x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	12.00	
7.60	x	x	x	x	x	x	x	x	x	.73	.27	.80	x	.95	.03	.12	x	x	x	.21	.46	.09	x	x	x	x	x	x	x	x	x		
79.40	x	x	20	40						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	59.00	
6.85			07							.70	.35	1.85	x	x	2.30	.22	.05	x	x	1.24	.07												
7.81										1.07	.40	2.18	.55	1.18	.13	.30	.09	T	.05	.56	1.00	.30											
3.20										.52	.50	1.00	x	x	1.07	.08	.02	x	x	.95	.07												
4.26	.05																																
37.15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	17.65	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	19.50	
3.71										.30	.10	.47	x	1.25	.16					1.09	.34												
3.64										.35	.20	1.08	.88	.06	.01						.34	.05	.06										
6.89										1.07	.28	2.50	1.48	.15						1.13	.28												
11.82	x	x	x	02						1.17	.86	3.30	1.07	2.35	.34	.34	.08			.17	.28	1.27	.47										
13.18	x	x	x	03						.52	1.57	4.20	1.33	3.05	.27	.46	.15	x	.07	.17	1.10	.27											
37.50	x	x	3	00						x	x	x	x	x	x	23.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.50	
8.34										.65	.61	2.70	x	2.46	.12	.23	.08		.37	.82	.31												
8.52	x	x	x	08					.01	1.05	.39	2.73	x	x	3.08				.06	x	1.54	.06									.45		
3.80																					.27												
1.65	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.65		
6.68	x	x	x	x	11					.13	.15		17	x	19.57	2.32	3.34	.20	x	x	1.76	5.60	.20	.30						.04	.08	.33	
42.94	09	x	x	x	01					.26	.81	.91	x	x	21.11	2.83	5.67	.29	.17	x	3.85	2.05	.51	.31	.11	x	x	x	x	1.22	.25	.38	
12.14	x	x	x	x	x	x	x	x	x	x	x	x	x	1.17	x	x	x	x	x	2.97	x	x	x	x	x	x	x	x	x	x	x	8.00	
3.19										.35	x	5.3	1.08	.28	.03	.04	.01		.41	.63	.50	.51	.28	.18	.46	x	x	x	x	.01	.10	.30	.03
22.70	03	T		T			.01	.04		.15	x	1.94	x	4.85	2.56	.16	.05	.01	x	.11	6.30	.50	.51	.28	.18	.46	x	x	x	x	x	4.57	
14.43	T									1.03	1.39	1.76	4.83	1.35	.55	1.07	.03	T	T	.91	.08	1.63	.04	.02	T	.09	.07	.17	.05	.06			
32.24	x	x	x	x	x	x	x	x	x	.98	1.17	4.04	3.63	4.66	5.20	2.58	.46	.08	.38														

DAILY PRECIPITATION

HAWAII AND PACIFIC
JANUARY 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
OKALA 223	54.03	.15									.55	2.44	4.06	6.30	9.14	10.25	3.80	4.67	.28	.05	.09	2.84	1.59	5.07	.63		47	13	05	.08	52	40	.47
OPINIALE 2 24.1	2.24	.04	.07	T							31	.39	.29	.26	T	.11	T	.64	.06	.03	T		T	.04	T								T
BECHID LAND EST 91.5	35.29	x	x	x	x	.07	x	x	x	x	x	x	5.70	x	x	x	x	x	x	23.15	x	x	x	x	x	x	6.37	x	x	x	x	x	
PARAHU 217	40.92	.13		.02							1.32	1.97	1.52	6.79	7.10	7.57	1.77	3.55	.08	.03	.04	1.78	.61	5.36	.30	.25	.02			02	12	57	
PARUULO 221	56.29	.08									12	2.38	3.72	9.72	9.07	11.03	4.22	4.13	.15	T	.06	2.72	.31	5.52	1.04	.33	.09	T		11	13	1.36	
PAHALA 21	1.99	.05									.15					.46	.47	T					.77	T						T	.08	.02	
PAHUA 85	41.41										1.72	.66		x	x	22.11	3.74	2.35	.55	.15	x	x	4.18	1.84	20	84	25	x	x	1.22	1.05	.55	
PAPAIOU 144.1	35.24	.01									1.88	.66		x	x	16.00	2.80	4.71	26	.11	x	x	3.77	1.47	1.00	.43	11	x	x	1.26	.54	.43	
PAPAIOU MAUKA 140.1	58.22										1.84	2.30		x	x	23.30	6.14	7.23	20	.06	x	x	4.15	4.74	1.79	2.48	16	x	x	1.96	.91	96	
PIIMONUA 88	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUUKOHOLA HEIAU 98.1	.51												.08		07	27	.01						.06	.02									
PUU LEHUA 73	.65	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.65	
SOUTH KONA 2.31	.74	.29	.04											.05			.12	.31	T			13		.02	.04	.03	T	T	08	12	T	.01	
UPOLU POINT USCG 159.2	7.80										.10	.20	x	1.55	3.37	.80	.25	.31	T		.12	41	.27	.13	T	T	T	08	12	T	.01	.06	
WAIKAKA SCD 88.2	54.02					.02					T	1.99	1.27	3.27	7.94	9.64	5.07	8.10	35	10	.12	2.05	60	7.58	1.06	84	20	22	.70	1.24	.78	90	
WAIKALOA-BBIS CAS 95.8	1.02										.05	.42	16	x	x	.01					x	x		.37	.01								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JANUARY
1979

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
ATU I	21.93	72	3	08	1	56	1.22	52	.79	2.90	1.71	02	.19	1.04	.56	2.05	2.86	.98	.01	.02	.34	.05	.23											
CANTON ISLAND	14.58																																	
FAIRBANK VILLAGE	25.02	2	72	1	89	75	.71	.04	.17	1.06	2.00		.08	1.40	1.07	.15	.82	.47	.82	1.72	2.71	.65	.11	.27	.36	.71	.32	.25	1.48	.82	.88	.98	.12	
JOHNSTON IS WSO AP	1.51																																	
FRENCH FRIGATE SHOALS	-																																	
MIDWAY SAND IS. AND	6.32	36	01	1	16	.02	T	.72	.08	.10	.02	T	T			.02				.10	.01	.11	.07	.11	.31	T	1.40	1.61	.11	T				
PALEA, OA	14.54	.15	.68	1	78	.61	.43	T	1	65	1.33	.05	.23	.43	.95	1.03	.95	1.47	T	T	.04	T	.30	.30	.04	.48	.51	.82	.29	.01	.01	T		
PAGE PAGO WSO AP	12.70	.54	.74	.47	.28	.04			2	17	.80	.34	.53	.54	.66	1.92	.96	.85		.01	.01	.47	.04	.03	.60	.12	.61	.07	.13	.13	.04			
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
AGAT	7.14	.20	.11		.30	.70							.84	.89		.78	.28	.17	.10					.70	.10	.15		.80	.60		.70			
ANDERSEN AFB GUAM	4.88	.04	.04	T		.04		T	.10	.04	1.71	.42	.67	.44	.28	.17	.37	T	T	.36	T	T	.10	.08	.03		.13			.02	.01			
CLARK AFB GUAM	5.91	.06	.08	.02	.01	.03		.23	T		.80		.95	1.91	.23	.60	.21	T	.01	T	T	.18	T	T	.07	.14		.06	.13	.15	T	.04		
DEDDO	2.71	T	.03	.04	.04	.13		.01	.05	.14	.41	.17	.66	.34	.16		.07	T	T		.07	T		.05	.10	.01	T	.03	.07	.05				
GUAM WSO	5.60	.03	.07	T	.02	.01		.08	.24	.20	1.22	.73	.46	.61	.78	.02	.13	T	.03	.29	T		.01	.03	.13	.02	.26	.08	T	.03	.12			
INARAJAN AG STN	6.40		.02		.12			.01	.10	.04	1.22	1.86	.02	.12	.01	.85	.15	1.05				.11		.04	.07	.15	.08	.02	.47					
INARAJAN - NASA	5.37	.02	.04	.01	.02	.03		T	.08		1.63	1.49	.07		.06	.90	.15			.02	.11	.03	.05	.22	.02	.12	.20	.04	.03		.03			
MANGILAO	3.64			.02	.04			.01	.10		.73	.47		1	30	.05	.10	.06				.05	.06	.05	.05	.24	.05	.06	.10	.01		.08		
OSTA	-																																	
SAIDAN LORAN	6.46	T	.05		T			T	.20	T		3.73	.43	.62	T	T	.26			T	.05	.19		T	T	.20	T	T	.30	.10	.05			
LABIAL	2.28	.03	T					T	.64	.03	.43	.13	.07	.06		.11	.34	.29		.01	T	.03		.02	T	.02	.20	.20	.11	.01		.24		
WAKE ISLAND WSO AP	3.09	.08		.09		.05	T	.19	X		.71	.43	.03	1	06	.11	.34	.29		.04	X	X	X	X	.36		.10	.07			.09			
CAROLINE AND MARSHALL ISLANDS																																		
ENUEWAK																																		
FALALOP I ULITHI ATOLL	-																																	
KABOJANGA ATOLL	-																																	
KABOJANGA WSO	6.98	.12	.11	.01	.15		.19							.06	1	03	.22		.08			.20	.25	.69	1	08			.44	.02	.06	.08		
KABOJANGA MISSILE RGN	10.73	.21	.12	.10	3	69	1	06	T					.01		.03	.05	.19	T	.04	.01	.08	T	.30	.75	T	.05	1	10	.39	.44	.01	.09	
LELE I KOSRAE	-																																	
MAJURO WSO AP	6.78	1	76	2	70	1	18		T	T	T			.10	.03	T	.14	.23	.20	.04	.01	.03	.29	.01	T	.01	T		.02	.01	.01			
ME TALANIN	6.64			.08	.38	.01	.11		.04	1	40	.37		.01	.11		.08	.35	T		.06	.38	.10	.20	.90	.08	T	.02	.51	.04	.35			
NGASANG - RABELTHUP	7.71	X	X	X	.02	.15	.24	.01		.33	.03			.09	1	79		.02		.07	T	T	.75	.42	.03	.63	.30	.01	2	00	1	22	.12	
POMAPE WSO	8.16		.22	.23	T	.07	.12	T	1	46		1	14	.19	.63		.07						.10	.67	.79	.79	.19	.18	.02	.07	.31			
SATAVAN ATOLL	-																																	
TAKU MOEN I WSO AP	7.69	.70	T	T			.11	.07	.65				.16	.39	T	T	.04				.02	T	.33		1	08	2	56	.01	T	.02	.01		
WOLEAI ATOLL	3.88	.17	.03	T	.02	T	.03		.03		.01	.06	.34	.22	.04	T	.11	.03	.04		.09	.95		T	.31	.11	.05	.60	.34	.01				
YAP WSO AP	-																																	

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HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	59 40	52 37	64 49	61 41	62 42	61 52	60 52	56 43	63 56	62 48	58 48	52 48	53 48	56 49	68 51	60 51	63 50	66 50	60 49	56 51	58 52	57 52	60 50	63 49	64 50	64 46	63 39	67 47	63 49	63 50	64 50	60.6 48.0	
KILAUEA POINT 1133	MAX MIN		81 62		82 65	82 65		82 64	78 64		82 65	75 64	74 59			74 67	74 67	74 67	77 69				72 65	73 65	74 65	77 66	77 66			77 65	74 65			
KOLOA LN (MAK) 940.1	MAX MIN	78 62	77 61	80 61	81 61	82 65	81 64	82 65	79 66	78 67	79 68	80 66	77 62	79 60	79 59	63 63	82 63	76 67	77 67	78 69	76 68	78 65	77 64	79 64	76 65	77 67	76 66	79 65	80 67	77 68	77 68	78.4 64.9		
LIHUE WSO AP 1020.1	MAX MIN	80 61	78 60	80 61	80 65	82 62	77 64	81 62	78 67	76 67	80 67	68 63	70 62	75 68	72 66	79 69	80 72	83 69	85 72	84 69	80 69	81 69	80 71	80 70	83 67	81 69	80 67	80 71	77 71	81 71	81 70	79.1 67.3		
NIU RIDGE 1035	MAX MIN				80 60	78 60			79 60	77 67	75 60	76 61				72 55	76 56	77 66	73 65				78 56	76 55	78 55	76 55	76 55			80 55	79 56	81 57		
WAIHAI LOWER 1054	MAX MIN	74 53	76 51	77 52	75 58	78 55	77 54	79 55	77 66	78 68	76 62	74 62	75 58	69 56	70 58	78 58	73 62	72 62	75 61	76 59	75 60	70 60	74 62	71 60	70 59	75 60	76 60	75 60	74 59	75 60	74 61	74 62	74.3 59.0	
WAIKAE 947	MAX MIN	76 56	76 55	76 59	83 64	80 64	80 63	78 63	78 62	83 71	81 64	78 64	70 60	76 59	77 57	76 58	79 59	79 60	79 60	81 58	80 58	82 61	80 56	82 59	83 60	70 59	70 62	83 60	78 62	80 64	78 68	77 65	78.4 60.9	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN		79 56	78 59	77 59	81 59	80 62		81 61	82 62	73 65	78 65	69 61			74 62	73 66	76 68	77 67	77 68				78 66	75 66	74 68	75 67	79 66			79 68	78 66	78 66	77.0 64.0
B Y U LAIE 903.1	MAX MIN	76 59	78 60	78 59	78 60	81 60	80 59	80 61	83 66	84 62	79 59	76 66	71 61	71 63	72 64	74 66	76 67	79 69	80 69	80 69	80 65				77 68	77 68	78 68	78 69	79 70	79 68	79 68	79 68	78.1 65.1	
HONOLULU OBSERV 702.2	MAX MIN																																	
HONOLULU WSO 703 AP	MAX MIN	76 57	76 57	75 57	79 58	79 60	77 59	79 58	80 71	78 66	76 65	70 61	69 61	68 61	75 63	72 67	77 67	78 66	79 65	78 64	74 63	76 64	73 63	75 65	76 65	63 63	64 63	81 63	80 68	80 65	79 68	79 66	76.5 63.2	
KANEHE MAUKA 781	MAX MIN	75 63	75 63	75 64	77 66	78 66	78 65	77 66	77 67	75 71	75 64	73 65	68 62	68 63	72 63	71 68	74 68	78 67	77 62	75 67	75 64				74 62	73 67	73 67	75 68	74 69	76 69	75 69	74 71	75 68	74.4 65.9
MANDA LYON ARBORETUM	MAX MIN	70 59	75 58	74 56	79 59	80 60	82 60	81 60	80 61	75 69	74 63	70 59	68 58	65 58	67 60	70 61	68 63	73 64	75 65	77 65	72 62	69 62	70 63	72 63	73 63	72 62	75 63	76 63	78 64	76 65	75 63	75 64	73.7 61.8	
OPAEULA 870	MAX MIN				72 59	78 63	77 59	74 59	74 59	79 65	78 62	78 62	77 59	70 60	70 64	70 64	71 63	75 64	75 65	71 64	70 63	70 62	75 64	75 64	74 64	75 60	75 60	75 60	75 63	75 65	75 63	73.9 62.3		
WAIALEE 896.3	MAX MIN		73 62	76 62	76 65	76 62	76 63		80 65	83 70	81 65	74 65	69 60	69 61	72 59	73 65	74 67	75 66	76 69	75 65	74 65				75 67	74 67	74 67	75 68	76 65	76 65	75 68	74 67	75.1 65.1	
WAIALUA 847	MAX MIN	74 56	76 56	80 54	80 56					80 70	82 62	76 68	68 59	68 62	72 66	73 65	75 59	78 65	79 65	74 60	72 60				74 58	75 58	75 58	77 58	76 58	76 58	77 60	77 62	75.4 60.1	
WAIKIKI 717.2	MAX MIN	77 61	78 57	78 57	82 59	82 61	82 61	81 61	82 64	82 71	82 66	79 65	76 61	72 62	70 62	78 65	75 67	79 69	81 68	81 69	81 65	78 65	80 65	79 67	79 68	80 66	82 66	83 65	82 68	82 67	81 68	81 68	79.5 64.6	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN																																	
LANAI CITY 672	MAX MIN	70 56	72 55	72 54	72 60	76 56	74 58	72 56	72 64	76 65	73 59	73 60	69 55	61 57	60 57	62 59	64 61	67 61	70 61	72 59	64 59	66 59	71 59	67 60	69 55	70 56	73 55	71 55	69 57	66 54	76 56	70 55	69.6 57.8	
ISLAND OF MAUI																																		
MOLEKALA R S 338	MAX MIN	57 36	62 39	62 38	61 37	61 37	63 35	60 43	67 52	66 45	66 48	55 46	53 39	46 37	43 39	45 38	48 42	51 38	55 38	59 39	56 38	46 38	46 36	48 35	55 33	55 35	59 38	60 37	58 36	55 37	55 39	55 39	55.7 38.9	
HANA AIRPORT 355	MAX MIN																																	
KAAHAPALI AP 453.1	MAX MIN	77 60	77 60	77 61	79 60	81 61	80 61	79 59	81 65	80 72	80 64	78 64	75 58	68 63	69 62	71 64	75 64	80 65	75 66	79 67	79 65	75 63	76 64	74 65	74 60	78 61	78 61	79 60	81 64	77 67	80 66	79 67	77.1 63.2	
KAHULUI WSO 398 AP	MAX MIN	78 57	77 58	77 60	81 57	81 58	79 60	81 58	83 69	84 75	78 68	78 65	69 64	71 65	74 65	74 68	76 68	78 68	80 68	80 67	77 66	77 65	75 66	77 65	78 65	81 65	80 61	81 59	80 61	80 60	79 66	79 66	78.2 64.0	
KAILUA 446	MAX MIN			74 57	72 59	76 58			76 59	83 66	83 64	71 64	69 60				66 60	68 63	67 62	72 63				73 62	68 63	71 63	72 62			73 64	72 64	73 64		
KEAWAKAPU BEACH 260.2	MAX MIN	78 60	80 79	79 68	81 58	82 60	80 60	80 58	80 73	83 63	85 65	76 68	79 60	68 60	68 65	77 68	81 67	82 67	82 65	79 61	82 60				77 61	80 58	81 56	80 58	81 58	80 57	81 57	78 55	81 58	79.3 60.4
KULA SANATORIUM 267	MAX MIN	64 47	65 47	64 48	66 48	67 50	69 50	66 51	74 51	75 50	78 59	78 57	66 52	60 51	61 52	64 54	67 54	67 51	66 51	68 49	69 51	67 50	69 51	66 48	66 49	67 49	68 49	67 50	68 50	67 49	68 50	67.6 51.0		
LAHAINA 361	MAX MIN	84 65	80 63	83 60	83 59	82 56	82 63	82 63	80 55	80 62	80 62	78 60	79 69	75 68	76 69	82 71	82 70	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	82 61	80.6 63.1		

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HAWAII																																			
UH AGRI RES CNTR 324.5	MAX MIN	66 48	66 50	65 49	66 49	67 54	66 52	68 50	69 50	77 64	77 57	66 57	66 51	61 53	60 54	67 56	65 55	67 52	68 51	68 49	67 55	66 53	67 53	65 50	65 50	65 50	66 50	67 52	67 52	67 49	68 50	67 50	66.8 52.1		
ISLAND OF HAWAII																																			
HAWAII VOLCNS NP HQ 54	MAX MIN	63 47	64 46	68 45	69 48	69 44	72 43	68 52	68 51	70 51	70 53		58 48			57 50	59 53	63 49	64 49	64 49			65 48	64 52	58 50	59 48	60 47	63 51	64 49			58 46	64.0 48.7		
HILO WSO AP 87	MAX MIN	75 63	77 64	79 61	83 61	82 61	83 60	91 59	91 60	91 59	76 63	80 66	69 65	68 64	68 63	71 68	71 66	77 65	78 61	77 62	75 63	75 61	71 63	74 65	72 64	75 63	79 59	78 63	72 63	74 62	78 63	77 58	77.0 62.5		
KAINALIU 73.2	MAX MIN	73 57	74 60	71 54	74 60	73 57	76 58	77 57	78 63	79 63	80 64	80 63	76 62	72 60	78 59	76 62	74 62	76 59	75 60	75 57	75 57	75 57	76 58	77 60	73 58	75 57	77 56	75 56	76 56	76 57	76 57	76 58	75.6 58.7		
KAMUELA 192.2	MAX MIN	70 48	71 48	69 44	74 44	70 44	71 44	70 43	71 43	74 44	79 52	78 60	70 56	57 54	57 53	60 55	61 58	63 52	67 56	68 57	66 54	63 54	67 54	61 55	62 55	67 54	67 53	66 51	66 53	70 56	72 53	68 55	67.6 51.7		
KAPOHO BEACH 93.11	MAX MIN	77 63	80 64	80 62	81 65	82 60	84 61	83 60	80 64	84 69	83 68	80 68	76 67	74 61	70 61	71 64	72 66	73 67	78 65	79 65	78 64	77 61	74 62	76 64	77 68	79 63	79 64	80 64	80 64	78 62	80 67	79 67	78.2 64.0		
KULANI CAMP 79	MAX MIN	65 35	59 43	66 35	64 42	65 34	66 33	64 32	68 35	69 35	68 44	65 42	67 47	64 45	59 45	54 46	55 44	50 47	57 42	59 39	59 42		57 43	57 44	53 46	54 43	55 41	57 40	58 41	54 42	55 42	52 45	59.8 41.5		
MAUNA KEA OBS 111.2	MAX MIN	38 28	42 28	36 29	45 29	46 24	47 25	41 26	42 28	45 26	45 26	44 26	40 22				43 23	44 23		43 24	44 19	43 19					44 24	43 23	28 20	55 22	37 20	44 20	30 20	42.0 24.1	
MAUNA LOA SLOPE OBS	MAX MIN	50 33	50 32	49 32	53 32	52 35	50 35	55 35	56 42	56 40	47 32	48 30	37 30	34 29	35 29	39 32						46 28	41 24	39 26	40 25	39 26	43 25	47 26	41 25	45 27	45 24	44 25	43 25	44 26	45.3 29.6
MOUNTAIN VIEW 91	MAX MIN	69 56	73 55	72 55	75 57	76 57	79 57	80 57	78 55	80 59	81 61	73 61	74 58	61 56	61 56	63 56	64 61	64 60	70 57	72 57	70 56	68 56	70 56	67 59	65 58	66 58	71 58	72 56	71 59	72 62	66 56	69 58	70.7 57.3		
NAALEHU 14	MAX MIN	74 59	71 59	71 56	77 58	77 59	76 54	75 59	78 54	84 58	84 60	79 64	78 61	69 60	71 63	70 61	72 63	75 63	77 60	77 59	74 52	73 60	77 53	76 62	74 61	75 61	73 60	73 61	76 62	74 62	75 62	75 62	75.2 59.6		
OOKALA 223	MAX MIN	69 62	73 62	74 62	75 66	78 65	78 63	76 61	76 65	80 65	84 67	70 62	78 62	66 60	67 60	67 63	71 63	69 63	76 64	75 64	75 60	73 61	73 62	68 63	68 63	75 63	74 62	74 63	75 63	69 63	76 63	74 62	73.4 63.0		
OPINIAHOLE 2 24.1	MAX MIN	72 58	69 53	76 55	74 55	76 53	79 53	79 52	86 59	91 61	76 59	74 59	74 57	67 56	77 58	73 60	77 58	77 59	73 53	74 54	75 53	76 54	76 56	77 55	77 53	76 54	77 55	78 53	77 54	77 54	77 55	77 55	76.2 55.5		
PUGUKOHOLA HEIAU 98.1	MAX MIN	85 58	85 58	81 59	81 60	83 62	82 61	84 60	86 64	86 68	88 69	87 69	83 69	84 66	84 66	86 61	85 64	87 64	85 66	78 64	84 64	84 61	88 62	87 62	84 62	84 60	83 62	84 62	83 57	84 57	83 57	82 57	85 57	84.3	
SOUTH KONA 2.31	MAX MIN	67 55	67 54	65 52	72 52	72 50	73 50	74 51	73 55	76 55	77 57	74 61	73 60	68 56	64 57	72 56	72 58	74 55	74 50	75 51	71 51	72 52	73 55	72 54	69 53	71 56	71 55	73 54	69 56	68 54	71 58	71.4 54.6			
JPOLU POINT USCG 159.2	MAX MIN	78 63	78 63	78 67			81 66	81 66	80 64	81 64	84 67	83 67	81 67	69 66	69 59	71 58	73 64	73 61	77 66	78 65	78 65	76 63	75 64	71 61	75 65	78 63	78 61	78 65	78 65	75 66	77 64	78 64	77.0 64.2		

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PACIFIC																																	
■ ■ ■																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	90 73	89 76	89 76	90 76	90 74		89 76	89 74	89 79	89 78	89 76	89 72		90 76	87 75	88 74	87 77	83 79	86 78		90 76	82 77	85 77	84 76	84 77	88 73		87 73	87 87	84 73	87.5 76.1	
JOHNSTON IS WSO AP	MAX MIN	79 73	79 70	80 74	81 74	80 73	80 73	81 73	81 74	81 72	77 70	75 67	77 67	79 73	78 73	80 72	79 74	80 72	80 73	78 73	79 70	80 70	80 72	79 71	80 70	80 72	80 71	80 74	80 73	80 70	80 70	79 74	79.4 71.9
FRENCH FRIGATE SHOALS	MAX MIN																																
MIDWAY SAND ISLAND	MAX MIN	72 64	74 64	72 64	71 62	74 63	76 65	71 63	66 57	67 60	70 61	72 60	73 61	74 69	75 66	76 69	76 68	75 66	71 63	75 66	76 68	70 62	73 64	74 65	72 64	70 62	71 60	70 63	73 64	72 62	72 61	66 61	72.2 63.5
PAGO PAGO WSO AP	MAX MIN	87 76	87 75	86 75	87 76	89 76	88 76	87 73	86 76	88 76	87 76	82 75	85 75	84 75	84 75	85 74	86 72	86 76	87 79	85 72	86 72	85 72	84 78	86 79	85 76	85 75	87 73	86 80	87 80	87 79	87 81	88 77	86.1 75.8
■ ■ ■																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	81 76	81 76	81 76	80 76	80 72	80 75	81 75	79 74	79 75	78 74	80 74	80 76	79 74	81 75	81 76	82 75	81 76	82 75	80 75	80 74	80 74	80 75	80 73	80 74	79 75	81 75	79 74	80 73	80 75	80 75	80 74	80.2 74.7
CLARK AFB LUZON	MAX MIN																																
GUAM NAS	MAX MIN	84 78	83 78	83 77	83 77	84 74	83 74	84 75	83 76	83 77	85 77	85 77	86 78	85 76	85 77	84 78	84 77	85 76	85 76	85 76	83 76	83 75	83 74	83 75	82 76	83 76	84 75	83 76	84 75	83 74	82 77	82 77	83.7 76.1
GUAM WSMO	MAX MIN	83 76	83 74	83 71	84 70	84 69	82 68	84 71	83 73	82 73	81 70	84 74	84 74	85 72	85 72	84 75	84 71	84 70	85 73	84 66	84 65	82 73	82 70	84 72	83 72	82 73	82 71	82 72	82 72	83 71	83 72	83 71	83.2 71.5
INARAJAN - NASA	MAX MIN	85 67	85 66	85 65	85 63	85 62	86 73	85 72	85 74	85 73	84 70	85 73	85 75	85 76	85 75	85 72	85 72	85 72	85 72	85 72	85 71	85 72	85 71	85 72	85 72	84 63	84 72	84 74	84 72	84 72	83 73	84.7 71.0	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	82 75	84 75	84 76	82 76	82 74	83 77	83 77	79 74	77 70	80 70	79 71	81 73	80 73	82 76	83 76	83 75	82 73	83 73	81 73	83 73	83 72	83 73	84 75	82 73	82 75	80 72	81 71	81 70	80 73	80 73	80 72	81.5 73.3
■ ■ ■																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 73	88 75	89 74	89 74	89 75	88 74	89 76	84 75	88 74	89 73	89 73	88 77	88 78	88 75	88 75	88 76	88 76	89 76	90 74	89 74	88 74	88 73	85 74	88 75	88 76	86 75	85 75	86 75	85 75	86 78	87 76	87.8 74.9
KWAJALEIN MISSILE RGN	MAX MIN	85 74	83 75	83 73	81 68	85 77	86 80	86 80	87 80	86 78	86 76	86 80	85 80	85 79	86 80	86 76	86 74	85 76	85 75	86 77	86 74	86 78	86 76	84 79	86 78	86 77	87 77	86 78	86 76	87 75	86 77	86 75	85.4 76.7
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	82 74	82 70	84 76	86 76	87 80	87 78	87 76	89 79	87 79	87 79	86 78	87 78	86 76	87 79	87 76	84 76	84 71	84 74	85 78	85 74	87 75	87 76	85 75	86 74	85 77	86 77	87 78	86 78	86 77	86 77	86 74	85.8 76.5
METALANIM	MAX MIN	85 78	85 77	85 74	85 76	87 73	90 72	88 72	89 76	84 75	88 74	90 76	90 75	85 75	87 74	86 76	85 78	85 74	85 78	86 74	87 74	85 75	85 76	85 75	88 74	86 77	84 77	84 73	84 75	84 72	85 78	85 75	86.1 75.1
PONAPE WSO	MAX MIN	89 79	87 75	89 74	89 73	89 69	88 73	89 73	92 75	82 75	87 77	90 76	88 75	89 78	90 75	89 80	89 77	89 78	89 79	89 75	89 76	87 74	87 77	87 76	87 76	85 76	85 75	86 74	85 73	88 76	86 76	87 76	87.8 75.5
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	86 75	86 79	86 79	86 79	86 75		85 78	87 77	89 76	88 78	89 76	87 75	88 80	88 79	87 79	84 79	87 78	87 77	86 79	87 76	86 79	83 76	86 80	85 75	82 75	86 78	86 79	85 78	86 77	85 79	86 77	86.2 77.6
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	87 74	88 75	88 74	87 75	88 73	87 73	87 75	87 70	87 76	85 70	88 78	86 73	87 75	87 75	87 74	87 76	87 75	87 75	88 75	88 74	86 73	86 70	88 75	87 70	88 74	88 75	83 74	85 74	86 75	87 78	87 74	86.9 74.1

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EVAPORATION AND WIND

HAWAII AND PACIFIC
JANUARY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO AP 1020.1	EVAP	.18	.16	.15	.17	.16	.20	.13	.11	•	.00	.00	.01	.30	.24	.28	.20	.26	.21	.09	.33	.27	.23	.24	.26	.21	.38	.24	.21	.29	.19	.30	
	WIND	96	85	69	67	88	90	78	174	•	399	103	133	286	342	314	311	277	193	177	250	276	265	272	191	192	191	155	203	230	254	280	
	MAX	81	81	79	86	75	78	77	74		73	74	76	62	65	65	68	70	75	77	76	77	76	74	75	75	77	78	77	78	74	75	
	MIN	53	52	52	54	55	55	54	55	-	59	58	54	54	54	58	58	58	58	60	60	62	60	58	58	59	57	59	59	59	59	60	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.22	.30	.30	.30	.17	.20	.30	.30	.26	.05	.12	.20	.03	.11	.20	.17	.15	.17	.20	.13	.11	.20	.20	.19	.16	.15	.18	.18	.15	.15	.30	
	WIND	16	19	17	14	17	27	22	67	108	70	13	33	35	47	52	45	45	25	24	31	29	49	41	27	22	21	25	19	27	40	33	
	MAX	76	77	79	80	82	83	82	81	83	77	74	70	65	65	73	70	79	81	82	81	78	77	78	81	79	80	80	81	82	78	82	
	MIN	55	55	56	55	57	58	58	58	66	63	63	53	57	58	59	60	59	58	59	60	60	60	58	59	59	56	56	59	60	58	60	

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EVAPORATION AND WIND

HAWAII AND PACIFIC
JANUARY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
■ ■ ■ EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.32	.26	.16	.26	.35	.32	.25	.29	.17	.02	.15	.28	.30	.36	.35	.32	.32	.26	.27	.43	.35	.30	.29	.25	.28	.28	.25	.27	.25	.27	.20	8.43	
	WIND	255	193	181	147	163	186	161	173	160	206	200	346	352	263	271	238	270	238	246	271	264	224	220	175	184	220	183	181	182	185	206	6746	
PAGO PAGO WSO AP	EVAP	.09	.23	-	-	.17	.25	-	.21	.18	.15	.08	.23	-	.35		.16	.26	.27	.28	.02	.19	.25	.29	.32							7.388		
	WIND	35	43	45	45	32	58	58	44	47	38	90	213	80	34	24	26	39	96	70	54	77	149	161	142	104	131	177	158	156	154	136	2716	
	MAX	90	99	92	89	95	97	96	99	97	93	84	83	86	87	87	89	89	90	96	95	-	87	88	88	95	94	94	94	93	95	90	91.7	
	MIN	79	74	75	75	75	77	79	73	75	76	75	70	71	74	70	69	72	74	73	74	-	74	75	74	75	75	76	76	77	77	75	74.5	
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM WSMO	EVAP	.21	.25	.22	.27	.16	.26	.25	-	.25	.23	.11	.08	.19	.23	.36		.24	.24	.18	.21	.26	.25	.31	.28	.24	.23	.22	.23	.30	.30	.23	7.268	
	WIND	182	176	174	148	85	64	99	139	167	270	107	119	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MAX	84	83	84	83	85	85	86	83	76	78	86	84	84	85	84	86	86	84	85	84	83	85	83	82	82	82	79	82	83	81	82	83.2	
	MIN	69	68	68	69	66	63	65	69	66	72	71	72	79	70	76	71	68	75	67	66	67	67	67	65	73	74	66	67	67	66	67	68.9	
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																		
YAP WSO AP	EVAP	.24	.19	.23	.18	.15	.22	.28	.19	.31	.21	.22	.11	.07	.20	.17	.27	.13	.19	.19	.22	.20	.25	.32	.23	.21	.26	.11	.15	.25	.27	.30	6.52	
	WIND	100	72	77	48	43	87	100	54	110	68	141	104	46	33	78	57	60	77	61	79	66	138	147	126	118	128	100	121	136	154	140	2869	
	MAX	95	94	92	93	91	91	91	90	89	86	93	94	95	95	95	97	90	91	92	90	88	88	89	91	93	93	86	89	92	93	94	91.6	
	MIN	73	74	73	75	75	74	72	72	73	70	76	76	76	77	75	76	75	75	75	74	74	75	72	73	72	75	74	75	74	73	73	75	74.1

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HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV 983		0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A	0145	01	KAWAIIHAW	1	22 08	159 18	180	7A			C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720	7A				MC BRYDE SUG CO LTD
EAST LAWA 934		0456	02	KOLOA	2	21 55	159 30	440	7A				MC BRYDE SUG CO LTD
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	150	6A				MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIIHAW	1	22 07	159 19	253	7A				LIHUE PLANTATION CO LTD
HALENANAO 1006	A	1038	02	LIHUE	2	21 58	159 26	490	8A				LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2		1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A	1170	01	KAWAIIHAW	1	22 05	159 28	1218	MO				U S GEOLOGICAL SURVEY
HUKIPO 945		2161	03	WAIMEA	3	21 59	159 41	800	8A				KEKAHA SUGAR CO LTD
ILIILILULA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1050	VAR				LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A		2227	01	HANAIEI	1	22 09	159 34	690	WI				MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAW	1	22 08	159 23	830	7A				LIHUE PLANTATION CO LTD
KAPAA STABLES 1104		3159	01	KAWAIIHAW	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A	3982	01	KAWAIIHAW	1	22 06	159 19	9	7A				LIHUE PLANTATION CO LTD
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9	8A			C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANAIEI	1	22 13	159 25	320	7A			C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANAIEI	1	22 14	159 24	180	7A				MRS ELIZABETH MACIOLEK
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36	7A				KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1		4748	01	KAUAI	2	21 52	159 27	52	7A				AUSCG LORAN STATION
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 57	159 29	640	7A				MC BRYDE SUG CO LTD
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100	6A				MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A	5560	02	LIHUE	2	22 01	159 23	380	7A			C	LIHUE PLANTATION CO LTD
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207	7A				LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A	5864	03	WAIMEA	3	21 55	159 38	140	7A				OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	20	8A				KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500	MID				U S GEOLOGICAL SURVEY
MOLOAA 1145	A	6529	01	KAWAIIHAW	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R	6565	03	WAIMEA	2	22 04	159 30	5148	MID				U S GEOLOGICAL SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110	7A				LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	2	22 04	159 26	650	MO				LIHUE PLANTATION CO LTD
PH WAINIHA 1115		8155	01	HANAIEI	1	22 12	159 34	101	6A			C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANAIEI	1	22 13	159 29	295	9A			C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660	8A				KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329	8A				LIHUE PLANTATION CO LTD
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215	7A			C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIWA 943		9253	03	WAIMEA	3	21 59	159 43	10	8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50	7A				LIHUE PLANTATION CO LTD
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5		0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807		0300	03	EWA	3	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19		1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881		1384	05	WAILUA	5	21 33	158 00	1274				C	WAILUA SUGAR CO INC
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	A	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3		2410	04	WAILUA	4	21 34	158 15	1240					U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAU OA	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A	2570	01	KOOLAU OA	1	21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10					KAILUA FIRE STATION BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MID			
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHANA	5	21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400					
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A				
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD DAVIS R E WHITE UNIVERSITY OF HAWAII
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MID			
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20					
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			
PUPUEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 38	158 02	750					
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			
WAIHANA DAM 863	8945	05	WAIHANA	5	21 30	158 03	854					WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALAE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 16	157 46	10		7A			
WAIALAE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			
WAIHANA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			U H WAIMANALO EXP FARM WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120					
WAIMER 892	9593	05	WAIALUA	5	21 38	158 04	330					
WAIPIAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD DEL MONTE CORPORATION MOLOKAI RANCH CO LTD ALOHA AIRLINES CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070					
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700					
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A U S D A KOELE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120				C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	A 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAKULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPE 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHLU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310					KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A		C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W H GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		WI			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		7A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KA'U	3	19 08	155 34	1340		WI			CLOSED 12/31/78
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIKAWI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2020		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KA'U	3	19 02	155 40	1375		WI			PARKER RANCH KA'U DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530					W H GREENWELL RANCH
KERNAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CLOSED 12/30/78
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					CLOSED 11/30/78
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		WI			PARKER RANCH KA'U DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PARAHU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PARUULO 221	7312	01	HAMAKUA	1	20 03	155 22	890		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA	2	19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF HAWAII													
PAPAIOU MAUKA 140.1		7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
PIIHONUA 89	A	8051	02	S HILO	2	19 44	155 10	1730		MO			
POHAKULOA 107	A	8063	02	HAMAKUA	2	19 45	155 32	6511				C	
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A	8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1		8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31		8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA SCD 88.2		9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8		9142	04	HAWAII	5	19 56	155 48	900		8A			
CLOSED STATIONS ISLAND OF HAWAII													
KAAHA IKI 12	A	2249	03	KA'U	3	19 08	155 34	1340		WI			CLOSED 12/31/78 CLOSED 12/30/78 CLOSED 11/30/78
KONA (KAILUA) 68.3	A	4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	
LAVA TREE PARK 66.1		5460	02	PUNA	2	19 29	154 54	650				C	
NEW STATIONS ISLAND OF HAWAII													
PAHOA SCHOOL SITE 64		7465	02	PUNA	2	19 30	154 57	683				C	GEORGE SALAZAR

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10			C		DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAO	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- # Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- I Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AK observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- :
- DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

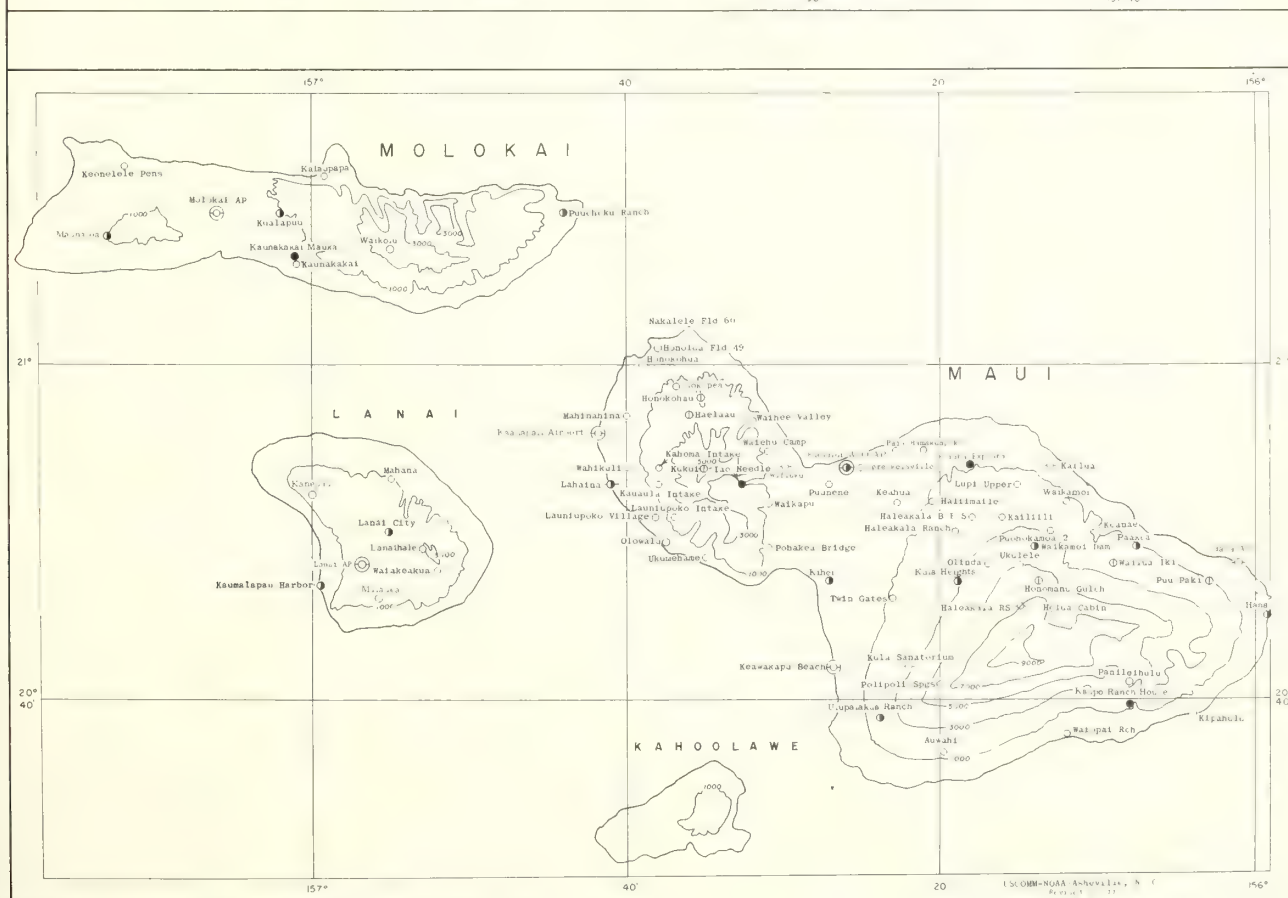
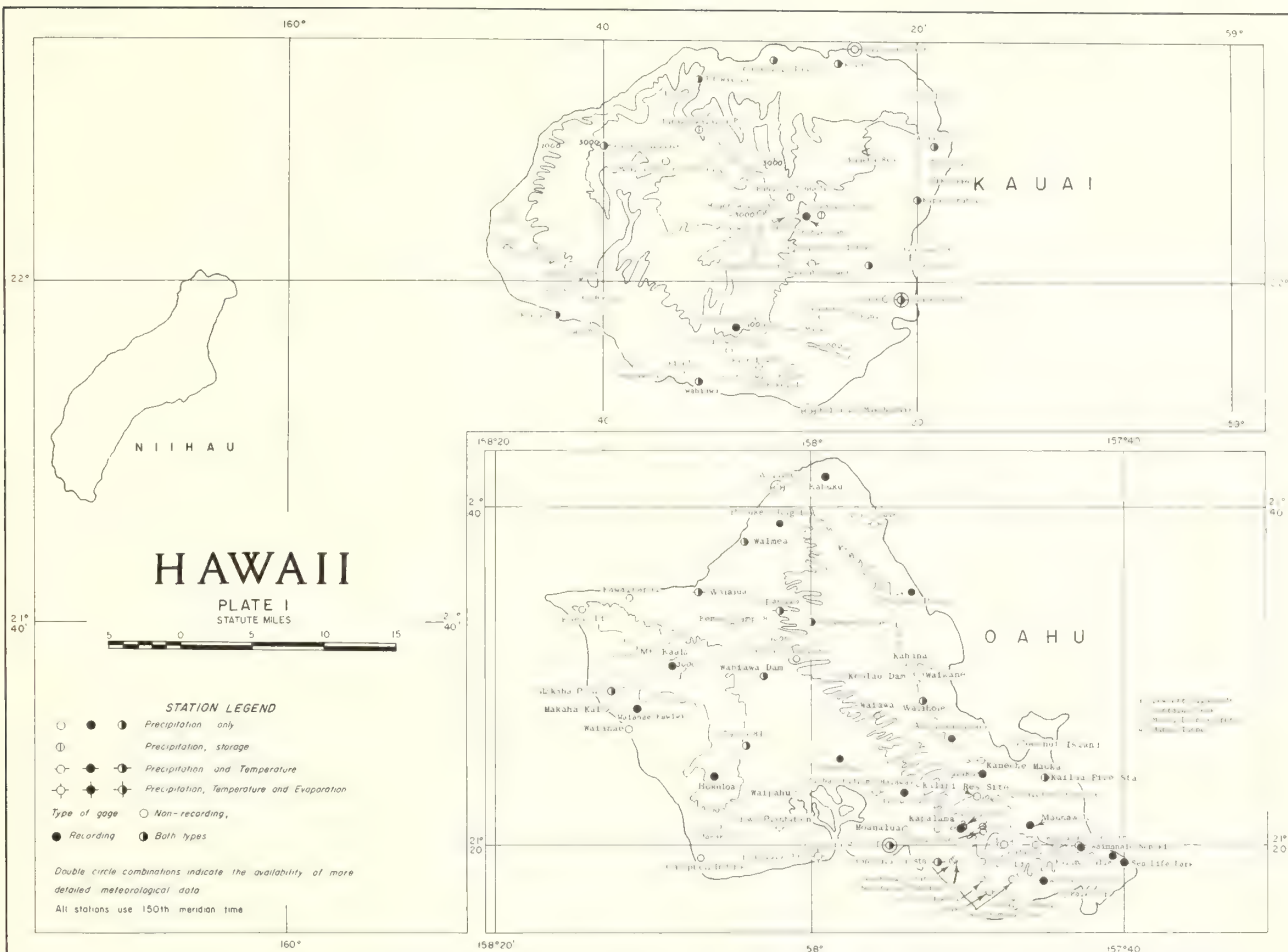
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

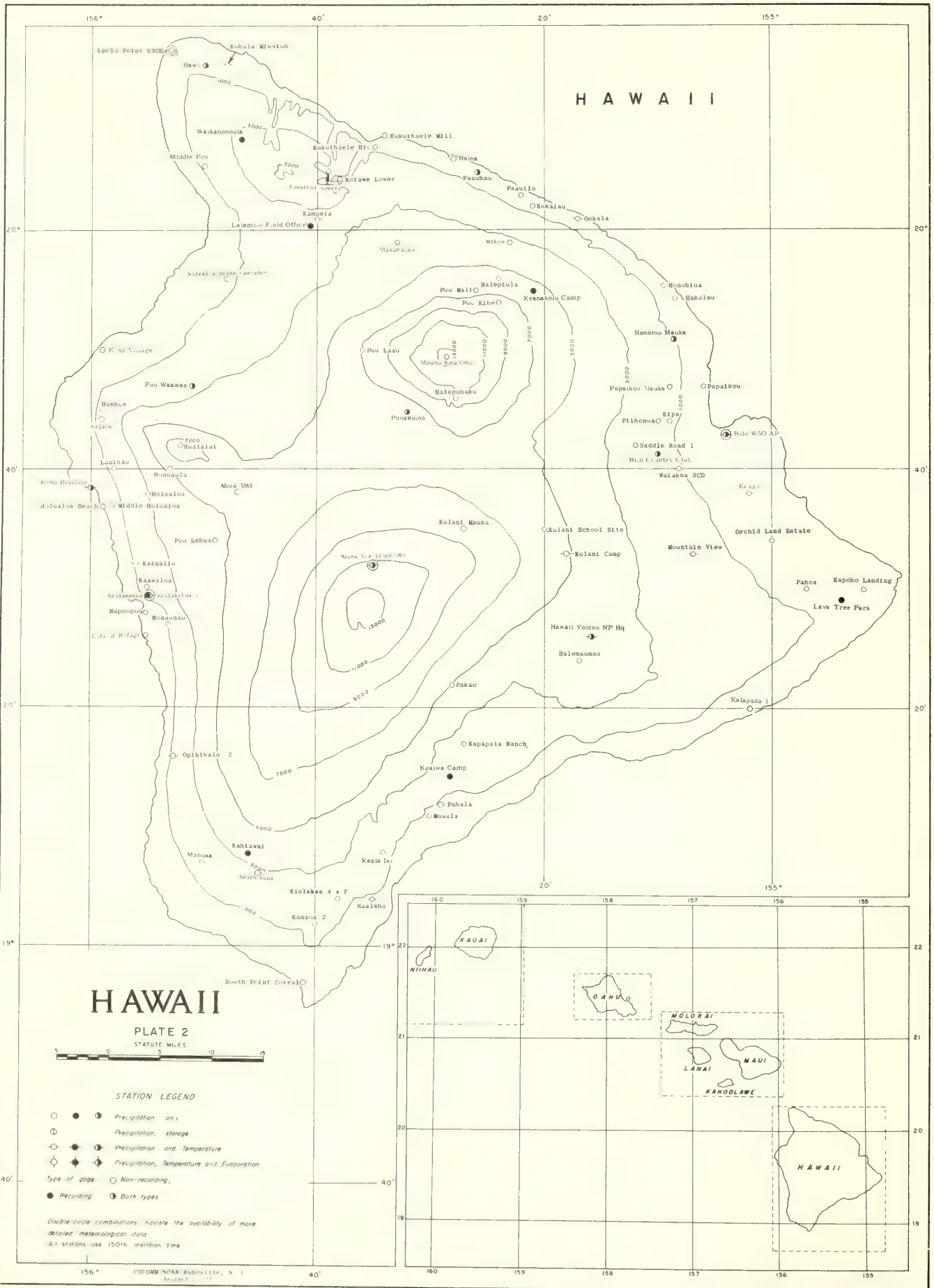
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

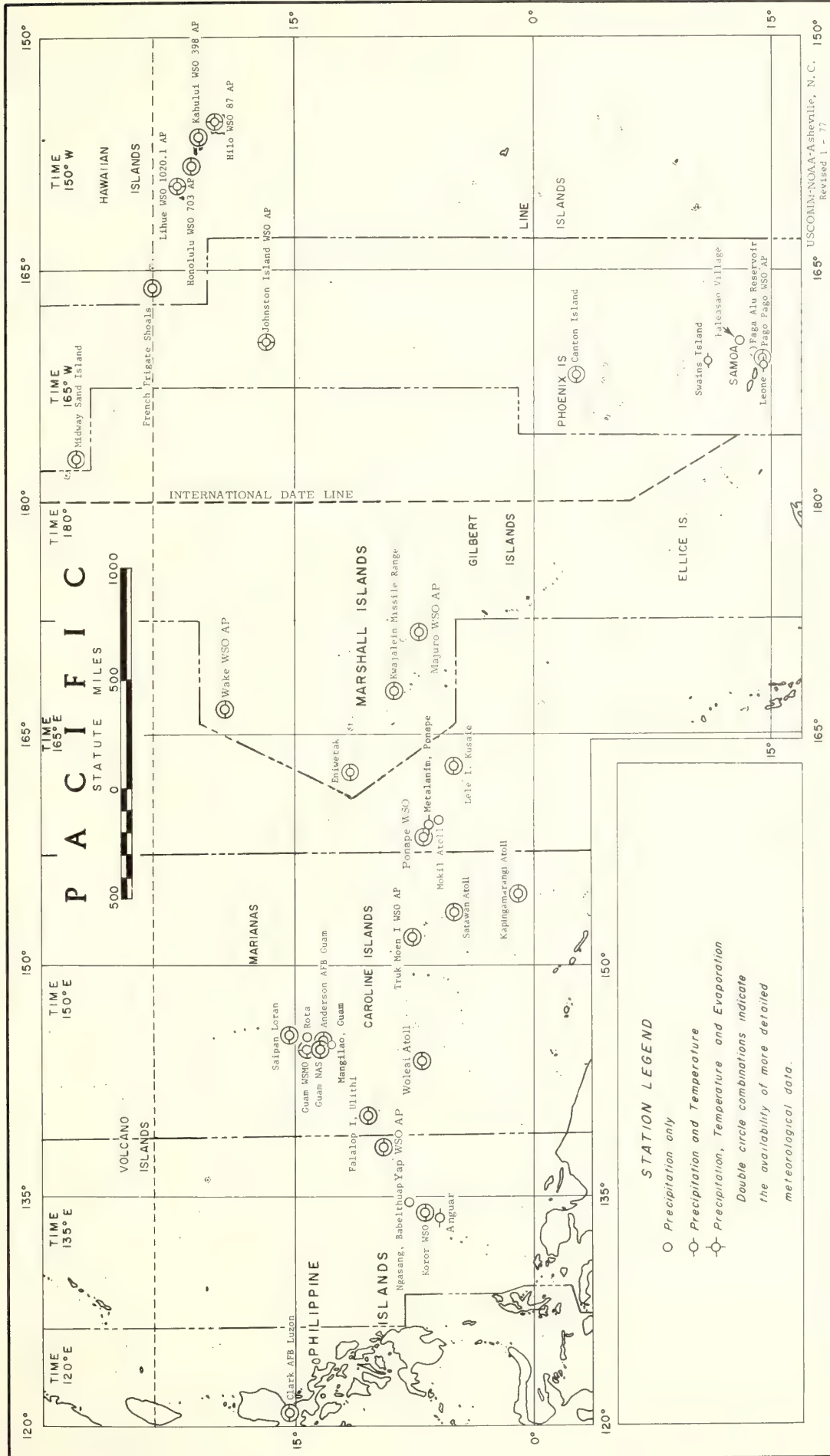
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

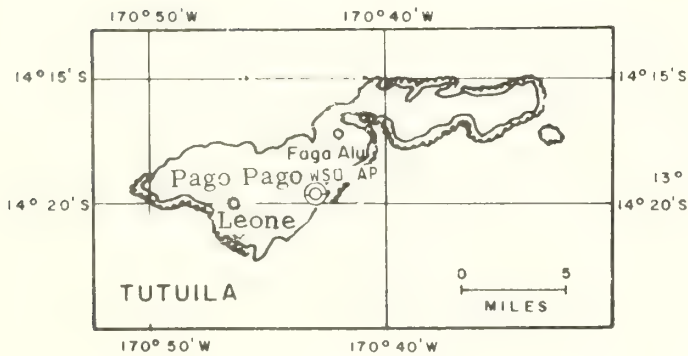
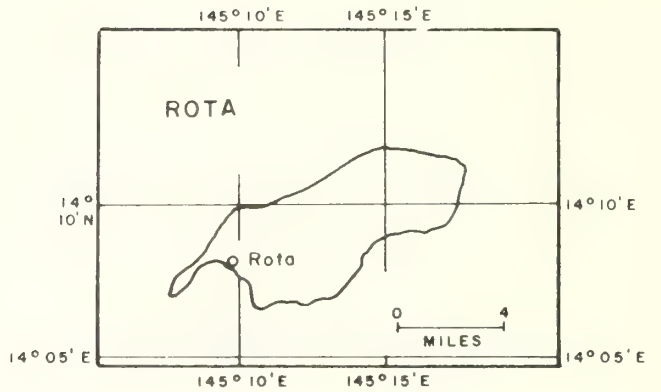
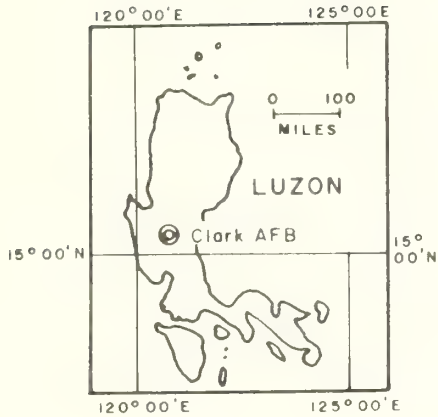
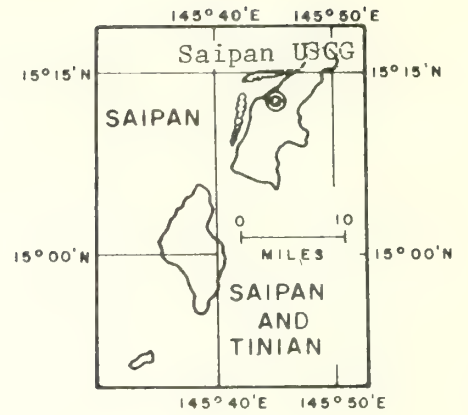
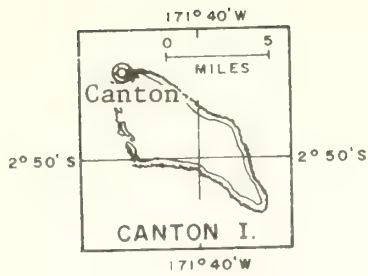
Subscription Price: \$5.10 per year for each section including annual summary; \$8.00 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. There is a minimum charge of \$2.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ALINE Publications

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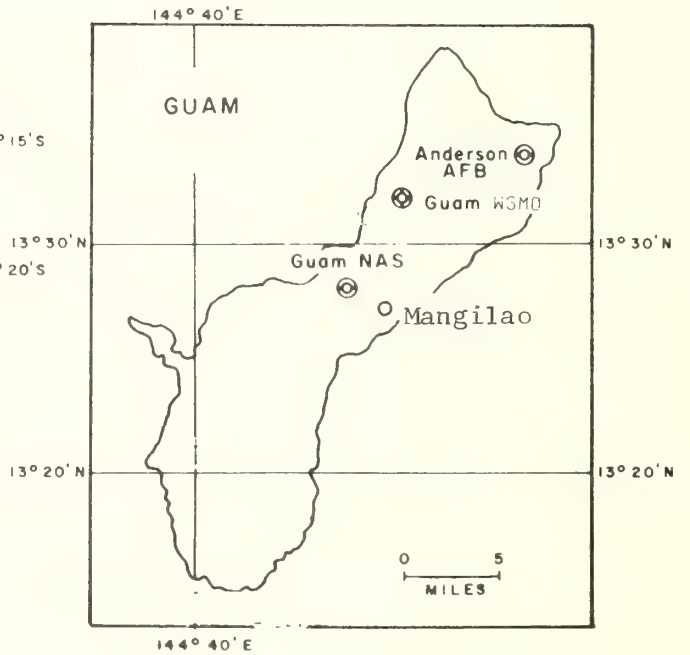


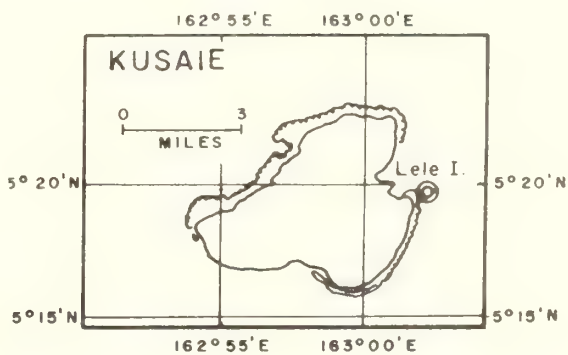
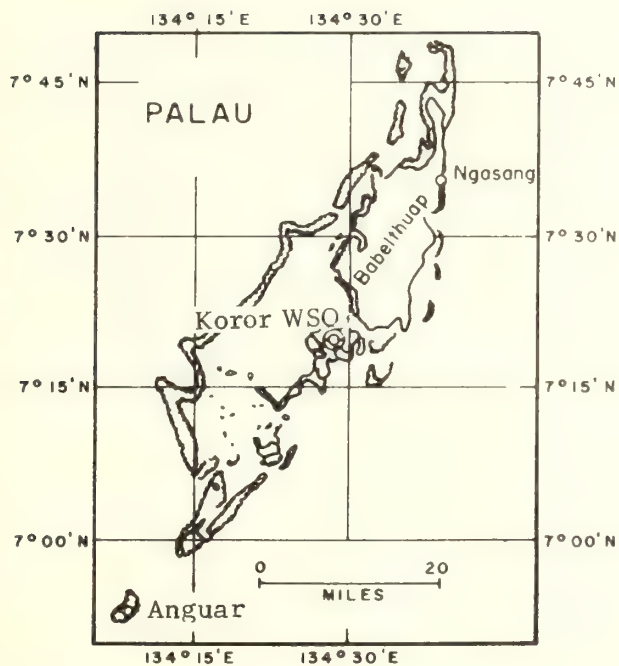
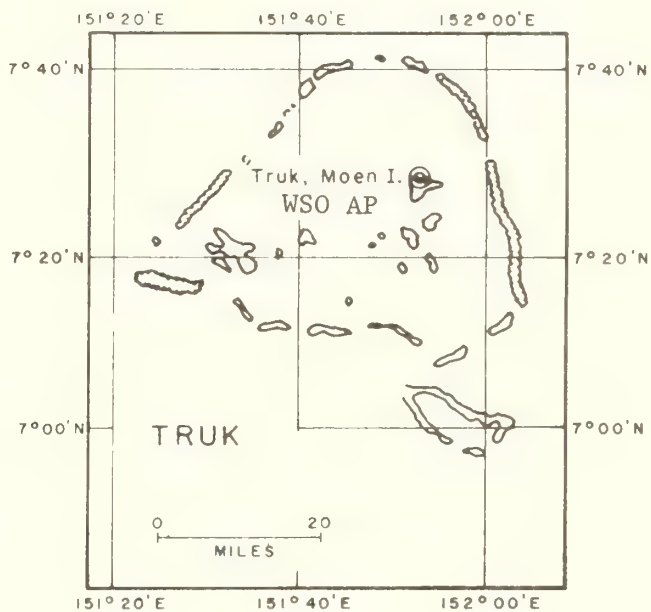
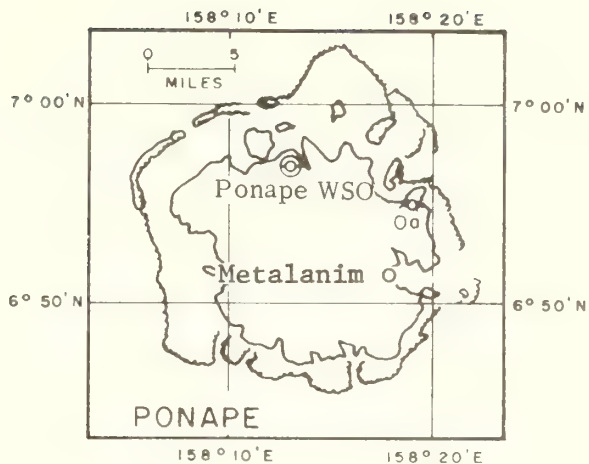
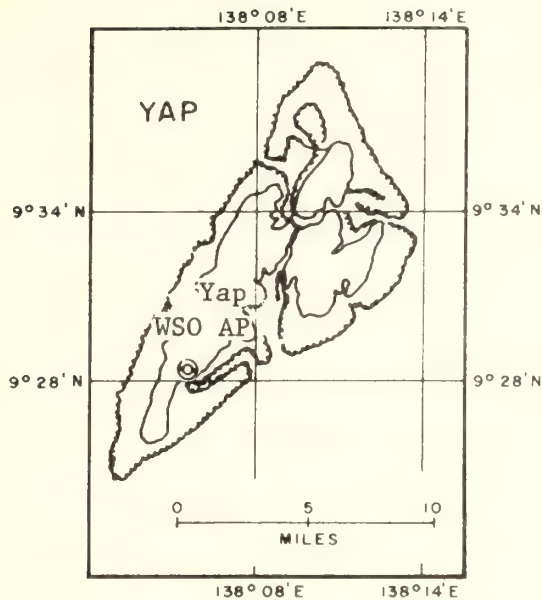




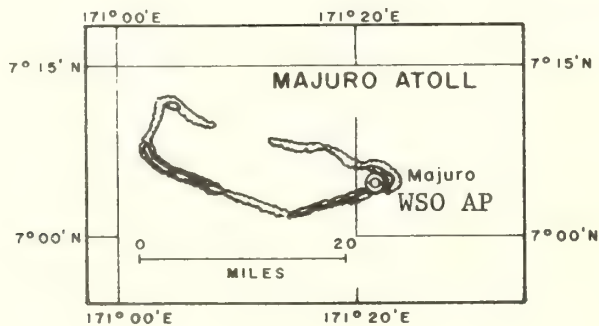
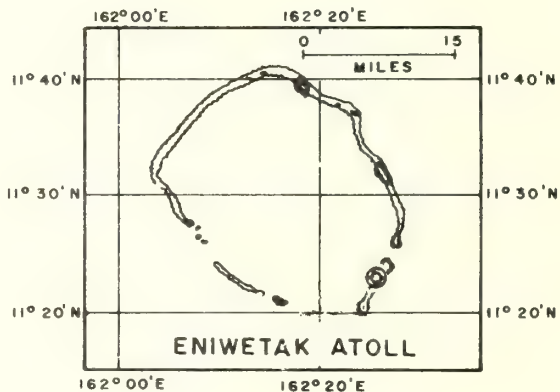
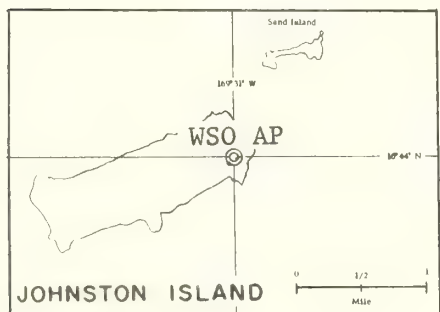
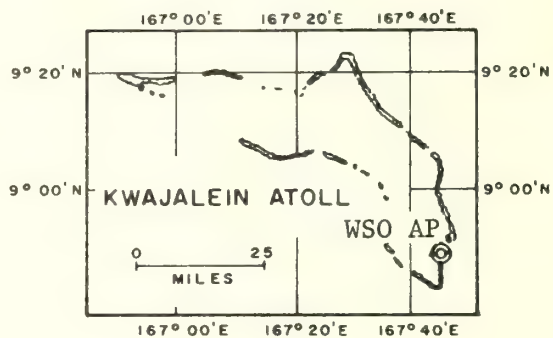
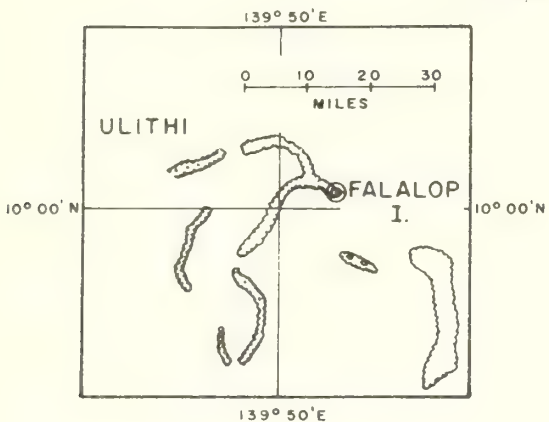
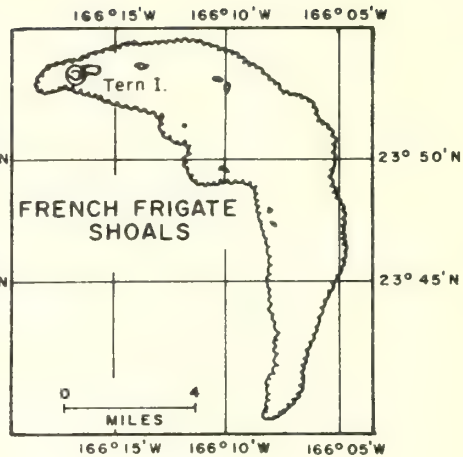
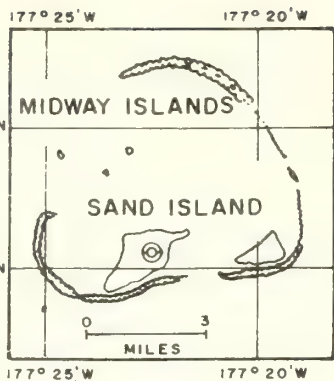
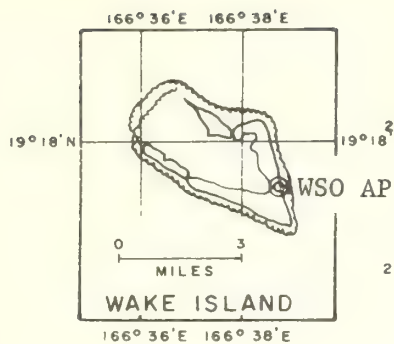


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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	85	DATE 23+
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	19 DATE 28+
GREATEST TOTAL PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	80.97
LEAST TOTAL PRECIPITATION:	PUUKOHOLA HEIAU 98.1	HAWAII	2.64
GREATEST 1 DAY PRECIPITATION:	MOUNTAIN VIEW 91	HAWAII	22.71 DATE 30

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE TENTHS SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME GREENWICH CIVIL				TOTAL	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL		
							12	18	00	06									
GUAM WSMO	-			26	E	18		73	71	87	1	14	7	0	0	0	22	67	6.6
HILO WSO 87 AP	18	2.0	7.1	24	SE	21+	87	86	76	85	2	3	10	4	3	4	26	32	8.6
HONOLULU WSO 703 AP	8	6.4	11.0	29	S	03	83	84	70	79	9	4	5	3	1	1	23	30	7.8
JOHNSTON WSO AP	6	14.5	17.0	33	E	12+	83	83	73	81	5	8	1	1	0	0	15	69	4.7
KAHULUI WSO 398 AP	6	5.6	11.9	32	NE	01	-	84	70	82	3	5	6	0	3	1	18	38	7.4
KOROR WSO	6	6.8	7.9	20	NE	10	86	89	77	74	1	5	4	3	2	0	15	62	8.5
KWAJALEIN MISSILE RGN	6	16.1	16.7	28++	11	14+	77	76	67	71	5	3	5	2	0	0	15		8.6
LIHUE WSO 1020.1 AP	7	7.7	11.8	28	N	03	83	84	72	81	3	10	8	1	2	1	25	40	8.1
MAJURO WSO AP	6	12.3	13.0	32	E	16	79	79	73	76	5	8	6	0	1	0	20	64	9.4
PAGO PAGO WSO AP	7	9.2	12.4	35	N	19	86	87	77	82	5	6	8	1	4	2	26	38	7.5
PONAPE WSO	7	7.7	8.7	18	SE	13	82	82	74	75	5	9	3	4	2	0	23	27	9.3
TRUK.MOEN I. WSO AP	6	9.4	10.0	19	NE	14	79	80	71	72	4	3	4	2	1	0	14	60	9.4
WAKE ISLAND WSO AP	8	9.6	12.4	34	NE	03	84	84	70	74	5	13	1	1	0	0	20	75	4.1
YAP WSO AP	7	7.7	8.4	20	NE	06	85	87	73	69	6	9					21	82	7.2



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Daniel B. Mitchell DIRECTOR
NATIONAL CLIMATIC CENTER

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
FEBRUARY 1979

STATION		TEMPERATURE										PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS				
											MAX.	MIN.	32° OR BELOW	32° OR ABOVE					TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																									
ISLAND OF KAUI																									
ANAHOLA 1114		A													11.56										
KANALOHULU 1075			63.0	50.0	56.5		73 23	39 5				0 0 0 0	18.63			4.11	4	.0	0		16	8	5		
KILAUEA POINT 1133																									
KO.09 935		B																							
LIMUE WSO AP 1020.1		A/R	77.9	67.5	72.7	1.5	84 21	61 6				0 0 0 0	10.59	6.31	5.11	9	.0	0		12	4	3			
MANA 1026																									
N. WAILUA DITCH 1051		A													8.71	6.15	3.97	10	.0	0	11	4	2		
PH. WAINIHA 1115															45.22				.0	0					
PUEHU RIDGE 1040															19.98	7.49			.0	0					
WAIHAKA 930		A													11.84	8.12	4.85	10	.0	0					
															7.21	3.62			.0	0					
WAIHAI LOWER 1054			73.5	60.8	67.2		79 23+	54 6				0 0 0 0	23.07	14.26	5.52	10	.0	0		24	14	7			
WAIHEA 947			75.7M	61.4M	68.6M		81 7	54 13				0 0 0 0	8.00	5.05	3.90	10	.0	0		9	4	2			
ISLAND					66.3														.0						
															15.99										
ISLAND OF OAHU																									
ALOHA STADIUM-MALAWA			77.9M	64.3M	71.1M		84 26	60 12				0 0 0 0	7.35						.0	0					
B. Y. LAIE 903.1			77.0	65.6	71.3		81 24	61 6				0 0 0 0	13.96			2.78	19	.0	0		13	9	6		
HONOLULU OBSERV 702-2															7.05				.0	0					
HONOLULU WSO 703 AP		R	78.1	66.1	72.1	- .2	85 23	61 11				0 0 0 0	7.21	4.75	2.01	4	.0	0		10	5	3			
KANEHE MAUKA 781			73.3	66.5	69.9	- 1.1	80 23	62 5				0 0 0 0	19.63	12.72	2.03	3	.0	0		10	5	2			
															4.40	10	.0	0		19	10	7			
KODIAI DAM 833		A													19.77	5.80	10	.0	0		26	12	5		
MANOA LYON ARBORETUM			72.9	62.4	67.7		82 7	59 14+				0 0 0 0	31.02		5.91	4	.0	0		23	18	12			
NIUANU RES 4 783															28.84	20.04			.0	0					
OPAEULA 870		A	74.9	61.9	68.4	2.0	79 26+	59 27+				0 0 0 0							.0	0					
PALOLO VALLEY 718		R													26.46	16.44	3.02	20	.0	0	21	17	9		
WAIKOLE 837		A													29.46				.0	0					
WAIKOLE 896.3			74.4M	65.2M	69.8M		81 22	62 14+				0 0 0 0	12.53		2.57	10	.0	0		16	7	6			
WAILUA 847		A	75.5	61.8	68.7	- 1.0	82 27+	57 1				0 0 0 0	12.32	8.67	3.18	21	.0	0		11	6	6			
WAIKIKI 717.2			79.2	65.4	72.3		84 24+	62 28				0 0 0 0			8.86				.0	0	9	5	3		
WAIMANALO EXP FM 795.1															15.73	4.42	4	.0	0	12	8	5			
WAIKAKO 750		A													8.88				.0	0					
ISLAND					70.1										16.60				.0						
ISLAND OF MOLOKAI																									
MOLOKAI AP 524																									
ISLAND																									
ISLAND OF LANAI																									
LANAI CITY 672		A	70.4M	59.2M	64.8M	- 1.1	75 28+	55 0				0 0 0 0	13.66	10.44			.0	0							
ISLAND					64.8										13.66				.0						
ISLAND OF MAUI																									
HALEKALA B E S 434		A													10.04				.0	0		15	7	3	
HALEKALA R S 338			57.0	40.7	48.9	1.4	64 5	32 12				0 0 1 0	15.64	8.90	3.89	11	.0	0		14	9	7			
HANA AIRPORT 355		A	75.9	65.7M	70.8M		81 5	60 13				0 0 0 0	21.87		5.27	20	.0	0		19	9	8			
KAHANAPII AP 453.1															16.16	2.85	22	.0	0						
KAHULUI WSO 398 AP		R	77.8	65.8	71.8	.2	84 7	58 2				0 0 0 0	7.07	4.43	2.09	11	.0	0		10	4	4			
KAILUA 446		A	72.3	62.0	67.2	.7	80 6	58 14+				0 0 0 0	16.21	5.92	3.89	11	.0	0							
KEANAE 346															30.50				.0	0					
KIPAHULLU 258															15.12	7.45	2.00	6	.0	0	20	13	5		
KULA SANATORIUM 267			68.1	53.7	60.9	.0	72 25+	45 13+				0 0 0 0	11.39	7.94	2.20	11	.0	0		12	8	5			
LAHAHINA 361			78.4	62.6	70.5	- 1.0	83 27	56 13				0 0 0 0	9.08	7.43	2.30	5	.0	0		8	7	4			
PAIA 406															6.04	2.52	1.05	20	.0	0					
WAILUKU 386		A													11.98	8.17			.0	0	15	4	2		
ISLAND					65.0										14.26				.0						
ISLAND OF HAWAII																									
HAWAII VOLCNS NP HQ 54			61.7M	51.6M	56.7M	- .9	70 8	45 13+				0 0 0 0	54.62	44.39	16.75	20	.0	0							
HICO WSO AP 87		R	76.4	64.4	70.4	- .6	84 6	57 1				0 0 0 0	45.55	32.65	16.87	20	.0	0		21	11	7			
HUEHUE 92.1		A													5.10				.0	0					
KAHANAIU 73.2			74.5	60.8	67.7		79 20+	55 2				0 0 0 0	7.13	4.25	1.31	28	.0	0		7	5	1			
KAPOHO BEACH 93.11			77.7M	65.4M	71.6M		83 26+	61 12+				0 0 0 0	13.93		2.28	11	.0	0		9	5	3			
KEAAU 92															47.71				.0	0					
KUKUNIALE HIC 199															8.80	1.71	12	.0	0		16	5	2		
KULANI CAMP 74			60.6	45.6	53.1		72 21	40 15+				0 0 0 0	32.15	1.75	7.65	21	.0	0		24	15	9			
PAHALA 21		A													40.68	16.96	20	.0	0						
PUUKOHOLA HEIAU 98.1				65.0M	73.0M		85 8+	57 14				0 0 0 0	2.64		.53	6	.0	0		8	2	0			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	TEMPERATURE										PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST ONLY	DATE	SNOW, SLEET		NO. OF DAYS					
										MAX.	MIN.	30° OR ABOVE	32° OR ABOVE					34° OR ABOVE	36° OR ABOVE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII SOUTH KONA 2.31 WAIKAE SCD 88.2 ISLAND	68.6M	58.0M	63.3M 65.1		78	7	53	13+		0	0	0	0	12.71 58.06 27.42		3.10 13.78	11 20	.0 .0 .0	0 0		11 22	7 17	4 11		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	TEMPERATURE											PRECIPITATION										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS			
								MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE	
								32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW	32° OR ABOVE										
								32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW	32° OR ABOVE										
PACIFIC																						
■ ■ ■ EAST OF 180TH MERIDIAN																						
ATI'U												18.57		5.15	18	.0	0		15	8	5	
CANTON ISLAND	88.5M	75.8M	82.2M		90	28+	71	12	4	0	0	0	4.82		1.58	18	.0	0		3	2	
FALEASAO VILLAGE												14.41		2.56	9	.0	0		20	11	11	
JOHNSTON IS WSO AP	79.4	71.9	75.7	-.8	81	28+	68	5	0	0	0	0	1.62	-.33	.90	9	.0	0		2	1	0
FRENCH FRIGATE SHOALS																						
MIDWAY SAND ISLAND	71.3	62.8	67.1	1.6	77	28+	57	3+	0	0	0	0	3.81	-.09	2.12	27	.0	0		6	1	1
MAA'ALO												20.06		4.17	19	.0	0		18	10	7	
PAGO PAGO WSO AP	86.1	76.6	81.4	.9	88	24+	72	6+	0	0	0	0	14.43	-.27	3.73	18	.0	0		15	7	6
WESTERN PACIFIC ISL. NORTH OF 12 N																						
AGAT												1.95		.60	18	.0	0		6	1	0	
ANDERSEN AFB GUAM	82.1	75.7	78.9	.7	85	28	74	16+	0	0	0	0	1.19	-2.85	.21	17	.0	0		6	0	0
CLARK AFB LUZON	86.8	72.0	80.4	1.6	93	23+	70	12+	13	0	0	0	.01	-.50	.01	19	.0	0		0	0	0
DEDEO												7.74		1.90	16	.0	0		17	6	1	
GUAM NAS	84.4	75.4	79.9	.5	86	25+	72	23	0	0	0	0	1.06	-1.66	.54	8	.0	0		1	1	0
GUAM WSO	84.0	70.0	77.0	.3	86	28+	63	23	0	0	0	0	1.85	-2.41	.29	2	.0	0		7	0	0
INARAJAN AG STN												3.09		.70	21+	.0	0		8	3	0	
INARAJAN - NASA	85.1	72.4	78.8		87	24	65	28+	0	0	0	0	.48		.17	8	.0	0		1	0	0
MANGILAO												1.48		.50	8	.0	0		6	1	0	
ROTA																						
SAIPAN LORAN																						
UMATA												1.12		.40	11	.0	0		3	0	0	
WAKE ISLAND WSO AP	81.9	72.9	77.4	.4	84	28+	67	1	0	0	0	0	1.45	-.24	.85	1	.0	0		2	1	0
YIGO												1.98		.50	3	.0	0		7	1	0	
CAROLINE AND MARSHALL ISLANDS																						
ENEWETAK																						
FALALOP I ULITHI ATOLL																						
KAPINGMARANGI ATOLL																						
KOROR WSO	87.8	74.8	81.3	.6	90	25+	73	26+	3	0	0	0	6.47	-.96	1.89	2	.0	0		9	5	2
KWAJALEIN MISSILE RCN	85.8	77.0	81.4	.0	87	27+	73	15+	0	0	0	0	2.81	.46	.89	5	.0	0		7	2	0
LELE I KOSRAE	88.0	74.1	81.1	-.2	91	14+	72	25	3	0	0	0	8.88	-11.23	3.34	6	.0	0		13	1	3
MAJURO WSO AP	85.4	76.5	81.0	-.2	87	28+	74	19+	0	0	0	0	2.77	-4.21	1.48	5	.0	0		7	1	1
METALANIM	85.3	75.0	80.2		89	5+	70	10+	0	0	0	0	8.07		1.55	22	.0	0		15	6	3
NGASANG-BABELTHUAP																						
PONAPE WSO	87.3	75.6	81.5	.8	90	23	71	10+	1	0	0	0	6.65	-4.79	1.40	13	.0	0		9	6	2
SATAWAN ATOLL																						
TRUK MOEN I WSO AP	86.7	77.6	82.2	1.1	89	4	75	26+	0	0	0	0	4.39	-2.01	1.93	25	.0	0		7	3	1
WOLEAI ATOLL																						
YAP WSO AP	87.1	73.2	80.2	-.3	88	27+	70	25	0	0	0	0	3.16	-2.25	1.19	18	.0	0		6	2	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1976

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAKOIA 1114	A	11.56	.04	.03	x	x	1.85									10	26				90	41	23	03	14	x	x	63	04				
BAVOKUARD STA 985	A	9.37	.08	.09	x	x	1.11	.01								01	30	63			115	09	46	23	08	x	x	82	04	07			
EAST LAHAI 934	A	10.80	.04	.04	x	x	.87	.01								01	42	85			1145	10	53	27	10	x	x	138	18	25			
ELELE 927	A	6.00	.01	.01	x	x	1.74	T													75	05	35	23	02	x	x	15	T		03		
HAUOLA 1110	A	12.17	.02	x	x	x	1.66									15	22				1.72	81	24	06	20	x	x	73					
HALENNAHOU 1006	A	13.24	.04	x	x	x	1.14		.11	.17	.57	x	x	4.27		52	76		32	x	x	1.91	.36	58	11	09	x	x	1.91	38			
HANALEI TUNNEL 1053	A	45.00	x	x	x	x	1.1	x								x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	45.00		
HUKIPU 945	A	10.62	.16	.16	1.63								5.70				01				.68	.25	1.25	26		10		02	17				
ILII IULU INTAKE 1050	A	28.73	.26	.45	x	x	2.29		.19	90	.52	x	x	6.72		06	54	1.97	2.00	x	x	4.18	31	64	17	29	x	x	5.72	25	63		
INTAKE WAINIPA DC 1088	A	10.16	.02	x	x	6.18	x		x	.22	1.15	x	x	6.80		x	x	2.36	x	x	x	4.15	x			x	x	6.90	x				
KANALOHU LUMU 1075	A	18.83	.08	.52	4.11	.02	.02		.05	20	28	2.66	2.93	1.22		.02	13	05	09	53	85	30	14	39	2.87	20		05	45	08			
KANEHE RESERVOIR 1092	A	20.01	.04	.05	x	x	2.78		.03	20	40	x	x	6.93		.02	43	70	14	x	x	2.40	1.67	40	07	83	x	x	2.35	17			
KEALIA 1112	A	12.06	.02	x	x	1.78			.07	20	.70	x	x	6.23		12	25	02	x	x	1.05	54	31		11	x	x	56					
KEKAHA 944	A	8.77	.03	.08	1.59				.02	.25	5.28	14				02					77	14	51	08	40	48		.12	.83	.06			
KILUEA 1134	A	16.64	.19	1.83	.20			2.45	93	2.80	1.02	14	08		28	68	34		42	19	2.75	.45											
KILUEA POINT 1133	A	7.30	-	-	-	-	-	-	-	15	17		2.80	15		-	-	-	-	-	90	06	24	16	18	12	10		2.20	03			
KOLAA 936	A	11.05	.03	.02	x	1.04		.09	.13	.88		x	3.71			26	67	29	x	x	1.08	.45	35	18	04	x	x	1.20	03				
KOLAA LN (HAW.) 940.1	A	7.42	.02	.07	.80			38	55	3.47						29	25			04	34	03	23	10	20	26	10	26	03				
KOLAA MAUKA 994	A	12.40	x	x	x	x	1.45		10	x	x	x	x	3.88	60	x	x	x	x	x	3.21	35				x	x	x	2.78				
KOLAKO RES 1137	A	16.43	.05	.17	.21	2.45		.02	3.16	.34	4.19	.27			58	58	13	.21		1.88	.24	26		.25	36	.20	34	.53					
KUKUIULA 935	A	8.46	.06	.04	x	x	.09	.01	.07	11	.23	x	x	3.30		.02	21	52	12	x	x	1.28	09	58	13	05	x	x	75	01			
LIHUE AVENUE ST 10621	A	14.38	.02	.04	x	x	1.53		.10	.40	.30	x	x	5.55		.02	42	70	02	x	x	2.80	10	10		20	20	10					
LIHUE 1020	A	10.51	.01	x	x	1.27		.14	15	.32	x	x	4.77		.01	35	30			x	1.85	05	21	02	11	x	x	93	01				
LIHUE W50 AP 1020.1	A	10.59	.01	.04	1.07		.04		.19	.27	1.11	.02	11	T	15	27	09		08	01	1.04	82	19	.03	04	35	23	.03	T				
MAKALEI 965	A	6.24	.01	1.18	.01			.02	41	.12	2.80	01	.55			09			01		65	06	43	16	01	x	x	16					
MAKALEI 1026	A	8.71	.25	1.72	.01			.11	.16	1.97						03			02		86	21	59	.29	06	13	.05	.24					
MOUNT WAIKALE CROSS 1083	A	9.98	x	x	1.95	x		x	x	x	x	x	x	4.95	x	x	x	x	x	x	2.24	x	x	x	x	x	x	1.24	x				
MOUNT WAIKALEALE 1047	A	80.87	.63	83	5.31	.04	.04	2.29	51	5.47	12	1.89	12	1.02	2.83	3.72	9.76	8.27	2.01	1.81	43	16	16	5.76	7.99	7.01	7.48	2.20	12				
MTU RIDGE 1035	A	8.62	.06	.30				3.20	.01	25	1.68	80	4.30			05	05			T	1.40	31	34	07		x	x	55	.10				
N WAILUA DITCH 1051	A	45.22	.11	.31	x	x	1.76	.01	25	1.68	80	4.30			01	83	1.91	2.23	x	x	9.62	28	46	11	1.28	x	x	5.84	1.19	.74			
N WAILUA RIVER 1055	A	24.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	24.40			
PH WAINIPA 1115	A	19.98	.06	.28	x	x	4.48		.49	1.24	x	x	3.56		.01	60	73	28	x	x	2.13	31	03	T	.63	x	x	4.60	.50	.25			
PRINCEVILLE RANCH 1117	A	17.33	.12	.18	x	x	2.75		1.47	.38	x	x	3.48		.03	61	x	x	x	x	3.30	30				x	x	3.61	.29				
PUEHU RIDGE 1040	A	11.84	.08	x	1.70			.08	.29	4.85						05					75	.20	1.47	38	04		x	x	1.72	1.31			
PUHI 1013	A	11.30	.08	x	1.19			.16	.20	.56	x	x	4.51			41	.42		04	x	1.88	32	23		06	x	x	1.07	.68				
WAIHANA 930	A	7.21	.01	.03	x	1.17	.01	.16	.04	.28	x	x	2.92		.02	18	42	12	x	x	87	07	.38		21	05	x	x	22	03	.02		
WAIHAI LOWER 1054	A	23.07	.05	.23	.46	1.06	.04	.02	.11	.38	30	5.52	96	58		18	1.66	41	62	78	1.72	64	52	21	.25	1.41	1.62	98	1.04	11			
WAIHAI UPPER 1052	A	27.17	.24	.29	.75	1.47	.03		.01	.57	30	5.58	1.04	.68		41	1.71	.96	1.66	47	1.93	44	58	16	28	1.38	2.34	1.48	1.72	56			
WAIHANA 943	A	8.59	.23	1.78				.04	.13	4.70						02				82	29	75	14				08						
WAILUA KAI 1065	A	13.21	.02	x	1.41			.08	.09	41	x	x	6.58		.02	11	42	08	x	x	1.31	93	71	04	06	x	x	91	04				
WAILUA 947	A	8.00	.25	1.84				.10	.31	3.80						02				21	68	22	60				04	1.24	x				
WEST LAHAI 931	A	8.75	.04	.04	x	91	.01	.05	.28	.21	x	x	1.48		.02	.26	64	16	x	x	1.00	23	57	71	07	x	x	.68	02				
ISLAND OF OAHU																																	
ALBION STADIUM-HAWAII	A	7.35	.16	.01	x	x	2.60	.27						x	x	1.42				T	x	x	x	1.06	1.37	21	x	x	08	T			
BECKETTIA PUMPING STA	A	10.90	.03	x	x	1.45	.59	.09	1.46	.09	77	1.97	.25	.01		09	11	05	03	04	.11	2.78	.21	1.55	T	1	65	05	28	06	.02		
B Y U LAIE 903.1	A	13.96	.04	.07	T																												
CAMPBELL IND PK 702.5	A	12.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COBURN INTAKE 940.1	A	12.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EARL PLANTATION 741	A	6.71	x	x	x	1.87	.15	.04	.04	.01	.06	x	x	1.17						x	x	87	80	1.25	25	.04	x	x	.20				
HONOLULU OBSERV 702.2	A	7.05	T	2.03				2.01	.50	1.12	.05	15	1.00	T	T			03		15	87	30	1.48	05		30	.03	.01					
HONOLULU W50 703 AP	A	7.21	T	2.03				.70	.29	T	T	T	.38	.40	T	T		05	01		85	1.07	.81			T	T	T	T	T	T	T	
KAHANA POINT 841.3	A	11.74	x	.02	x	x	1.93	.03	.20	.05	x	x	1.65		x	x	x	x	x	x	2.50	2.50			1.10	90	x	x	2.50	1.0			
KALIA 883	A	42.97	x	x	x	4.13	x		x	x	x	x	13.08		x	x	x	x	x														

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	JUL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
MAHANA 694	A	17.40	x	x	x	x	x	x	10.35	x	x	2.40	x	x	x	x	x	x	x	x	x	x	4.65	x	x	x	x	x	x	x	x	x	
MAHANA 676	A	10.25	x	x	x	x	x	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.15	x	x	x	x	x	x	x	x	x	
MAHANA 685	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ISLAND OF MAUI																																	
AWAHU 252	A	25.83	x	x	x	x	x	x	12.15	x	x	2.21	x	x	x	x	x	x	x	6.23	x	4.41	x	x	x	x	x	x	2.00	x	x	19.00	
AWAHU 477	A	19.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	19.00	
HALEAKALA B E S 434	A	10.04	01	02	61	88	06	02	03	.03	2.08	2.08	.11	03	13	37	.36	1.04	.29	.10	.03	.36	.75	.51	.10	.75	.51	.10	.75	.51	.10	.75	
HALEAKALA BANCH 432	A	8.60	x	x	x	x	65	1.03	x	x	.08	x	x	4.14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HALEAKALA R S 338	A	15.64	.02	.02	.02	.67	1.42	.28	T	.02	05	3.89	1.23	T	T	44	1.12	2.21	1.10	.06	.56	.20	2.11	.11	.13	T	T	T	T	T	T	T	
HAWAIIAN 423	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAWAIIAN 485	A	7.84	02	05	-	.75	.89	.03	01	T	.02	1.21	.17	.03	18	60	.20	.08	.41	.12	.37	.50	.08	.15	.20	.30	.50	T	T	T	T	.16	
HANA AIRPORT 355	A	21.87	-	02	11	1.11	2.36	.36	x	.08	.04	2.37	.59	.08	.30	.10	.23	.12	1.41	3.40	5.27	1.20	.08	.15	.20	.26	1.76	.25	.11	.11	.13	T	
HOLA CABIN 259.5	A	18.21	x	x	x	x	3.71	x	x	x	x	x	x	x	x	x	x	x	x	x	10.00	x	x	x	x	x	x	x	4.50	x	x	24.60	
HONOKAHU 480	A	24.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HONOKAHU 483	A	15.16	05	03	x	2.15	2.70	.40	.05	.02	.50	x	1.80	.02	12	.50	.45	.05	T	.90	1.20	1.30	2.85	.08	.02	.40	.45	.12	.17	.15	.17	.70	
HONOLULU FIELD 40 494	A	17.15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	17.70	
HONOLULU GULCH 341	A	17.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.10	
KAHOLA I RD 453.1	A	18.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.10	
KAHOLA INTAKE 374	A	18.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.10	
KAHULI USD 388 AP	A	7.37	-	-	2.02	1.00	11	-	-	.07	1.32	13	T	.02	T	-	.02	26	1.04	.46	.36	.21	T	.02	.03	.03	.03	.03	.03	.03	.03	.03	20.68
KAI, ILLI 436	A	20.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAI, ILLI 446	A	16.21	.22	12	T	x	1.10	.78	.68	01	.01	x	1.66	.07	13	.96	.58	x	x	1.10	2.00	1.40	.11	.03	.03	.03	.03	.03	.03	.03	.03	.03	20.68
KAHOLA INTAKE 375	A	17.07	.48	x	x	x	x	x	x	x	6.90	x	x	4.09	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	
KEAHUA 410	A	6.25	-	-	-	.87	1.65	-	-	.29	.01	.01	.99	.30	.02	.01	T	.11	15	1.07	.35	.29	.01	.02	.02	.07	.01	.01	.01	.01	.01	.01	30.50
KEAHUA 346	A	30.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KEAHUA BEACH 260.2	A	8.14	-	-	-	2.30	1.73	.08	-	-	-	-	2.14	-	-	-	-	-	-	.36	1.15	.27	.31	.32	.42	.51	T	T	T	T	T	30.50	
KIHEI 311	A	15.12	.60	.52	.81	1.64	2.00	.50	.40	.08	1.32	1.71	.65	x	x	34	.28	.46	.68	1.11	1.00	.28	.32	.42	.51	T	T	T	T	T	T	30.50	
KIHEI 258	A	15.12	.60	.52	.81	1.64	2.00	.50	.40	.08	1.32	1.71	.65	x	x	34	.28	.46	.68	1.11	1.00	.28	.32	.42	.51	T	T	T	T	T	T	30.50	
KIHEI 380	A	15.12	.60	.52	.81	1.64	2.00	.50	.40	.08	1.32	1.71	.65	x	x	34	.28	.46	.68	1.11	1.00	.28	.32	.42	.51	T	T	T	T	T	T	30.50	
KULA SANATORIUM 267	A	11.30	-	-	1.75	2.00	-	.05	.04	15	.55	2.20	12	-	-	-	-	.14	.75	1.44	1.10	.70	T	.36	.04	.04	.04	.04	.04	.04	.04	.04	20.68
KULA SAN 351	A	9.08	-	-	1.75	2.00	-	.05	.04	15	.55	2.20	12	-	-	-	-	.14	.75	1.44	1.10	.70	T	.36	.04	.04	.04	.04	.04	.04	.04	.04	20.68
KUNIAPOKA INTAKE 376	A	18.09	x	x	x	x	x	x	x	x	x	x	x	10	25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.84	
KUNIAPOKA VILLAGE 372	A	9.71	-	-	2.08	1.40	-	-	-	-	-	-	2.50	-	-	-	-	-	.72	.75	.86	1.13	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27	20.00
LUPU UPPER 442	A	20.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAHONAHU 466	A	11.09	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU 475	A	11.09	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28	.67	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	20.68
MAHONAHU FIELD 60 487	A	10.07	-	-	2.20	1.72	-	-	-	-	-	1.98	-	.06	.04	-	-	-	1.25	6.4	2.28												

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
NARODPOB 28	A	5.01	x	x	x																											
OKALA 223		17.88	.31	.21	02																											
OPINIALE 2 24.1		7.21																														
ORCHID LAND EST 91.5	A	31.37	x	3.38	x																											
PAALU 217		7.31	.18																													
PAULILO 221		12.45	.30	T																												
PAHALA 21	A	40.68	.03																													
PAHOLA 65		37.83	.15	.28	x																											
PAPAIAKU 144.1		57.22	.13	.67	x																											
PAPAIAKU MAUKA 140.1		62.48	.50	.40	x																											
PIIHOHUA 89	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUUKOHOLA HEIAU 98.1		2.64																														
PUU LEHUA 73	A	5.70	x	x	x																											
SOUTH KONA 2.31		12.71																														
UPOLU POINT USCG 158.2		5.71	T																													
WAIKAEA SCD 88.2		58.05	.38	.48	.20																											
WAIKALOA-OBIS CAS 95.8		3.82		.04	x																											

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
ATK	18.57			.52	.83																											
CANTON ISLAND	4.82																															
FALEPASO VILLAGE	14.41			.07	.36																											
JOHNSTON IS. WSO AP	1.62			.08	T																											
FRENCH FRIGATE SHOALS																																
MIDWAY SAND ISLAND	3.81			T	T	T																										
MALAEBA	20.06			.35		1.16																										
PAGO PAGO WSO AP	14.43			.05	.01	.52																										
WESTERN PACIFIC IS.																																
180TH OF 12 N																																
AGAT	1.95			.04																												
ANDERSEN AFB GUAM	1.19			T	.08	.02																										
CLARK AFB LUZON	.31																															
DEDEO	7.74			.19	T	.10																										
GUAM NAS	1.06			.03	.01	T																										
GUAM WSO	1.85			.02	.29	.02																										
INABAJAN AG. SYN	3.08			.70																												
INABAJAN - NASA	.48			.02		.05																										
MANGILAO	1.48			.02		.09																										
QOTA																																
SAIPAN CORAN																																
UMATAC	1.12					.06																										
WAKE IS. AND WSO AP	1.45			.85	.06	.01																										
YIGO	1.98			.10	.02	.50																										
CAROLINE AND MARSHAL ISLANDS																																
ENHETAK																																
FAIR, OP. I. ULITHI ATOL																																
KAPINGBARANGI ATOLI																																
KOROR WSO	6.47																															
KWADAJIN MISSILE RON	2.81			T	1.89	.09																										
LELE I. KOSRAE	8.88			.14	.08																											
MALUUBO WSO AP	2.77			.05																												
METALANIN	8.07			.69		.01																										
MORANG BABELTHAP																																
MORANG WSO	6.65			.01																												
SATAVAN ATOL																																
TAKI MOEN I. WSO AP	4.39			T	T																											
WOLERI ATOLL																																
YAP WSO AP	3.16			.02	T																											

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DAILY TEMPERATURES

HAWAII AND PACIFIC
FEBRUARY 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	62 49	63 46	65 43	58 50	61 39	65 44	64 52	60 54	65 55	67 54	60 50	58 46	57 43	60 47	61 51	62 49	68 49	62 53	64 54	61 54	62 54	67 54	71 56	55 55	65 53	61 49	62 52	67 46			63.0 50.0	
KILAUEA POINT 1133	MAX MIN																																
KOOLA LN (MAKI) 940.1	MAX MIN	77 67	80 69	81 69	78 67	73 63	78 62	75 63	79 64	79 64	80 64	79 63	73 64	71 62	72 62	75 65	76 64	82 71	77 69	79 69	80 66	76 67	77 64	80 64	80 65	80 67	75 68	77 68	80 67			77.3 65.1	
LIHUE WSO AP 1020.1	MAX MIN	80 71	80 69	81 65	81 64	81 64	78 61	76 67	77 69	71 69	82 66	74 65	74 67	73 66	78 65	81 67	76 72	82 71	77 69	80 69	84 66	79 67	74 69	75 68	77 68	77 70	77 68	76 68				77.9 67.5	
NIU RIDGE 1035	MAX MIN	81 54	76 56			78 60	72 55	76 62	74 63	72 63			75 54	72 52	73 55	71 57	74 59	78 62	72 64	75 63	78 59	75 60	78 62	76 62	76 62	74 63	75 58	77 59	79 59			75.3 59.2	
WAIHAI LOWER 1054	MAX MIN	74 58	72 59	72 56	77 59	77 56	74 54	74 55	71 64	73 65	70 60	77 60	69 58	67 59	71 63	75 67	75 62	74 62	72 62	70 63	76 64	74 60	79 54	79 58	73 64	69 61	72 64	76 65	76 65			73.5 60.8	
WAIKOA 947	MAX MIN	77 59	76 59	76 59	74 60		74 59	81 65				78 61	73 59	72 54		73 60	74 63	76 63	77 62	73 60	74 65				75 66	75 67	76 65	78 64	78 63	79 64			75.7 61.4
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	77 65	77 64			81 61	81 62	82 64	79 62	78 68		72 60	73 62	74 63	75 64	76 65					76 65	77 65	80 65	80 64			84 63	80 65	78 63			77.9 64.3	
B Y U LAIE 903.1	MAX MIN	79 68	79 67	80 62	79 62	75 63	79 61	78 67	78 68	78 68	78 68	74 64	71 62	73 64	73 64	75 66	76 69	75 67	75 66	74 66	77 65	78 65	77 65	80 63	81 67	79 67	79 67	77 70	80 69			77.0 65.6	
HONOLULU OBSERV 702.2	MAX MIN																																
HONOLULU WSO 703 AP	MAX MIN	80 65	80 64	80 63	76 63	72 63	79 62	81 69	77 70	76 69	78 66	76 61	74 65	74 63	77 63	80 65	77 68	80 70	75 68	76 67	77 68	78 68	79 67	85 63	78 69	79 68	82 65	81 70	81 69			78.1 66.1	
KANEONE MAUKA 781	MAX MIN	76 67	75 68	79 69	78 69	71 62	69 63	74 65	75 69	70 67	73 67	74 64	66 64	70 63	70 64	70 65	69 67	70 68	73 66	70 65	72 66	72 65	74 67	80 67	78 67	70 69	73 68	77 69	75 68			73.3 66.5	
MANDA LYON ARBORETUM	MAX MIN	75 62	77 62	79 60	78 60	75 61	71 60	82 61	75 66	74 65	71 67	76 62	66 59	70 60	68 59	68 51	72 61	68 63	70 64	70 63	74 64	73 65	76 61	78 61	69 63	73 64	73 65	70 65				72.9 62.4	
OPAEULA 870	MAX MIN	75 61	75 61	73 60	69 59	76 59	72 60	79 64	77 65	76 64	78 62	75 59	77 61	77 64	76 61	76 64	76 60	70 63	71 62	72 64	72 62	75 65	76 60	70 64	74 62	79 66	76 69	78 61				74.9 61.9	
WAIALEE 896.3	MAX MIN	79 67	75 63	76 63	78 62	71 63	70 60	76 65	74 69	76 68	72 67	74 65	64 62	76 62	71 65	73 64	74 67	72 66	74 66		73 65	74 65	81 68	78 64	77 67	73 66	75 67	78 67	76 68			74.4 65.0	
WAIALUA 847	MAX MIN	78 57	77 60	80 60	76 60	70 60	73 60	75 61	77 65	78 66	72 66	70 65	68 58	70 60	72 61	74 61	77 62	76 64	74 64	72 64	73 65	72 64	80 64	80 63	79 63	78 60	82 62	82 64	79 63			75.5 61.8	
WAIKIKI 717.2	MAX MIN	81 67	81 66	84 64	81 63	80 63	76 63	81 64	81 69	78 69	76 70	80 63	77 64	77 63	75 63	77 65	79 66	76 66	77 67	75 66	76 69	77 66	81 65	82 64	84 65	80 67	81 65	82 67	82 62			79.2 65.4	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN	69 56	73 55	72 57	72 58	70 61	68 60	75 60	71 63	70 62		69 56	63 56	66 56	69 56	70 59				68 61	68 62	71 63	71 61	75 60			72 60	72 59	75 61			70.4 59.2	
ISLAND OF MAUI																																	
HOLEKALA R S 338	MAX MIN	54 39	54 35	56 36	58 38	64 41	55 46	60 44	61 43	60 46	58 48	55 39	52 32	61 35	59 39	59 35	58 40	58 43	55 45	52 47	54 45	52 47	59 42	55 37	57 37	55 40	56 41	60 41	58 39			57.0 40.7	
HANA AIRPORT 355	MAX MIN	78 64	76 67	77 69	78 66	81 66	76 61	77 69	80 70	78 70	75 67	74 65	75 61	72 60	73 63	74 63	74 66	72 68	75 67	72 65	72 64	72 65	80 65	78 65	79 66	78 67	71 67	77 69	80			75.9 65.7	
KAAHAUAPALI AP 453.1	MAX MIN																																
KAHULUI WSO 398 AP	MAX MIN	80 66	83 58	80 59	80 66	72 68	77 68	84 67	80 68	75 69	75 70	75 64	74 63	75 63	77 65	76 61	77 67	74 67	74 67	81 70	80 67	79 62	79 69	77 68	82 63	81 63	81 68	82 68				77.8 65.8	
KAILUA 446	MAX MIN	70 64	70 64	72 64	77 62	79 62	80 61	79 61	77 63	78 63	73 64	74 61	71 58	68 58	68 59	68 59	68 61	67 62	68 64	67 63	68 64	68 65	78 65	75 64	75 60	69 60	68 60	76 61	73 64			72.3 62.0	
KEAWAKAPU BEACH 260.2	MAX MIN																																
KULA SANATORIUM 267	MAX MIN	67 49	68 50	70 50	71 52	70 58	65 60	65 56	68 58	66 57	67 58	64 54	72 45	64 45	62 48	66 49	68 51	66 54	72 56	68 60	67 57	66 59	71 56	71 55	71 54	72 52	70 53	68 54	71 53			68.1 53.7	
LAHAINA 361	MAX MIN	82 61	80 61	80 61	81 63	74 61	82 64	81 61	80 66	73 66	72 61	76 60	77 62	78 60	80 62	80 62	75 64	74 64	71 66	72 64	80 66	81 65	82 61	81 65	81 65	82 63	81 65	83 64	82 62			78.4 62.6	

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DAILY TEMPERATURES

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	DAY OF MONTH																															AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
LA AGRI RES CNTR 324.5	MAX MIN	67 49	68 51	70 52	67 54	71 56	65 53	67 59	67 59	64 58	67 59	62 52	60 47	63 46	64 48	66 50	67 53	64 56	63 56	63 56	64 56	71 59	70 57	71 55	72 56	68 54	69 56	68 54	70 54			66.7 54.1
ISLAND OF HAWAII																																
HAWAII VOLCAN NP HD 54	MAX MIN	55 45		60 48	57 52	62 55	61 55	69 55	70 52	65 53	61 54	63 55	57 46	58 45	52 47	58 50	60 51	61 54	61 53	59 51	61 56	61 55		63 50	68 50	68 53		67 51	67 54	61 52		61.7 51.6
H1.0 WSO AP 87	MAX MIN	74 57	77 61	80 63	75 66	73 68	84 65	82 67	78 63	79 67	77 66	71 64	74 63	72 61	72 63	70 65	72 64	72 66	72 64	73 64	72 66	81 68	83 66	80 62	79 66	79 65	81 65	79 67	79 65			76.4 64.4
KAINALI 73.2	MAX MIN	74 56	75 53	75 57	75 62	79 52	71 62	78 63	77 62	74 63	75 64	69 61	74 59	72 60	72 59	75 59	71 62	72 61	71 63	79 64	71 63	71 64	71 63	76 61	76 62	76 60	76 60	77 63			74.5 60.8	
KAMUELA 192-2	MAX MIN	66 51	70 50	72 45	70 51	73 54	69 58	72 53	72 54	74 58	66 57	67 51	72 51	60 49	60 51	64 55	65 54	67 60	74 60	72 58	71 58	67 58	72 52	73 53	73 52	70 58	77 50	75 51	69 58			69.7 54.1
KAPOHO BEACH 93.11	MAX MIN	79 61	79 62	81 67	80 71	75 70	74 68	77 69	83 64	81 65	75 69	76 66	71 61	75 62	75 62	76 64	77 64	74 65		74 62	77 70	76 67	76 68	79 64	81 65	82 67	83 64	82 64	80 65			77.7 65.4
KULANI CAMP 79	MAX MIN	50 44	53 44	62 41	63 46	64 48	64 46	62 48	65 45	65 44	61 55	60 53	62 42	54 40	53 40	55 40	55 45	57 45	63 48	59 44	60 46	72 50	64 44	69 50	65 44	63 54	65 43	64 43	57 46			60.6 45.6
MAUNA KEA OBS 111.2	MAX MIN	37 22	38 28	34 25	32 23	34 24	35 29	37 29	44 25					30 19	33 22	34 24	33 24						38 27	35 24	40 27	35 23		43 25	37 19			
MAUNA LOA SLOPE OBS	MAX MIN	44 25	47 26	50 32	46 30			-5 31	39 35	42 32	38 31	48 26	48 29	50 33	45 32	46 32					49 33	50 33	48 31	42 29	43 32	44 30	46 29	45 30				45.5 30.5
MOUNTAIN VIEW 91	MAX MIN	67 53	69 53	70 57	69 61	69 63	68 62	79 62	76 58	74 58	73 62	75 61	65 57	66 53	65 54	66 56	64 58	65 57	65 59	64 58	68 62	67 60	77 62	79 62	78 61	74 63	70 59	73 59	71 60			70.2 58.8
NAALEHU 14	MAX MIN	73 59	75 61	77 61	69 60	74 63	72 63	75 64	74 64	74 63	69 63	69 63	75 63	73 54	71 58	72 61	74 61	68 63	67 61	71 61	73 65	71 62	77 62	75 59	72 63	73 63	69 61	76 59	74 62			72.4 61.0
OOKHA 223	MAX MIN	73 61	75 61	75 66	78 63	80 66	74 66	76 65	76 65	76 65	74 64	74 63	67 60	69 59	69 59	72 61	71 62	72 65	72 64	72 61	70 63	69 64	77 66	79 66	79 65	76 65	75 66	76 66	76 63			74.0 63.6
OPIHIHALE 2 24.1	MAX MIN	77 52	77 54	76 57	80 62	77 60	77 60	79 61	73 61	75 62	69 60	73 52	76 55	72 55	72 57	76 57	72 60	72 60	71 61	84 64	73 59	81 58	78 59	75 60	75 57	76 58	76 57	79 59	77 60			75.6 58.5
PULUHOUA HEIGHT 98.1	MAX MIN	65 48	85 67	82 65	82 65	76 64	83 66	85 66	81 61	77 68	77 64	82 60	81 60	80 57	83 57	77 66	79 68	79 62	75 66	78 67	73 68	81 66	82 65	84 62	83 69	83 64	83 68	84 68			80.9 65.0	
SOUTH KONA 2.31	MAX MIN	69 54	71 54	71 57	68 58	72 60	65 59	78 61	77 60		71 61	61 58	70 53	66 53	62 56	67 57	69 55	70 59	67 60	66 60	66 63	65 63	70 56	66 57	68 60	64 59	68 57	74 59	70 57			68.6 58.0
UPOLU POINT LSCG 159.2	MAX MIN	77 62	77 64	79 64	80 63	80 63	76 69	78 69	80 68	79 71	75 68	77 66	76 66	73 61	72 61	73 58	74 64	73 67	74 66	71 66	77 65		75 67	80 68	78 68	78 66	77 65	79 66	79 63			76.6 65.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
FEBRUARY 1979

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	88 73	89 79	87 77		89 77	89 76	86 75	85 77	89 78	89 77	89 71	89 73	88 74	88 76	88 76	86 75	88 78			89 74	89 74	89 73	89 74	90 80	90 78	90 77	90 78					88.5 75.8	
JOHNSTON IS WSO AP	MAX MIN	81 73	80 72	79 73	77 71	77 68	79 71	79 74	78 70	78 71	79 73	79 71	78 71	79 71	80 69	78 73	78 71	79 70	80 72	81 73	80 73	80 69	79 74	81 73	81 73	81 74	81 74	81 74					79.4 71.9	
FRENCH FRIGATE SHOALS		MAX MIN																																
MIDWAY SAND ISLAND	MAX MIN	67 60	64 57	65 57	65 59	71 60	72 62	72 60	71 61	72 65	70 64	73 65	72 64	75 66	69 63	69 62	73 62	72 61	71 64	74 64	73 62	67 62	75 61	70 66	72 66	71 65	74 64	74 61	71 61					71.3 62.8
PAGO PAGO WSO AP	MAX MIN	88 77	88 76	86 75	86 75	82 72	82 72	87 78	87 80	87 79	86 77	87 80	87 80	87 77	87 74	87 76	88 78	84 74	83 73	83 74	85 76	88 79	87 75	87 79	88 79	87 81	87 75	85 77	86 76					86.1 76.6
WESTERN PACIFIC ISL. NORTH OF 12° N																																		
ANDERSEN AFB GUAM	MAX MIN	80 74	81 76	82 74	81 76	82 77	82 76	81 75	82 76	82 75	82 76	82 75	82 75	82 77	83 77	82 74	82 75	82 77	83 76	82 77	83 76	84 75	81 75	82 76	83 75	82 75	83 77	85 77					82.1 75.7	
CLARK AFB LUZON	MAX MIN	88 72	82 72	84 70	90 70	88 73	86 72	88 70	86 72	86 70	86 72	90 72	88 70	88 72	91 75	91 72	88 73	88 73	88 72	91 72	91 72	91 72	93 73	93 72	91 72	91 72	90 75	88 74					88.8 72.0	
GUAM NAS	MAX MIN	83 75	85 76	84 76	84 76	85 76	84 76	86 75	81 76	85 75	84 75	84 76	84 76	84 76	84 77	84 74	85 75	84 78	84 76	83 76	85 75	85 75	84 73	85 72	85 75	85 75	85 77					84.4 75.4		
GUAM WSMO	MAX MIN	83 72	84 71	83 71	82 73	83 73	84 72	83 71	83 72	83 66	84 65	84 71	84 70	84 72	85 71	84 70	85 69	84 71	83 74	84 72	83 70	84 70	86 66	85 63	85 64	85 69	85 68	85 68	86 75					84.0 70.0
INARAJAN - NASA	MAX MIN	84 75	84 76	85 73	85 76	84 75	85 76	85 75	84 74	84 75	84 72	84 72	85 72	85 74	85 75	86 76	85 72	85 74	85 74	86 75	85 72	85 75	85 71	85 68	87 68	86 66	86 65	86 65					85.1 72.4	
SAIPAN LORAN		MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	81 67	79 72	79 72	82 74	81 72	81 71	81 73	82 73	82 71	81 70	83 73	83 73	83 71	83 72	83 73	84 74	83 73	82 74	82 74	82 72	81 73	81 74	82 77	83 76	82 75	82 75	84 76					81.9 72.9	
CAROLINE AND MARSHALL ISLANDS																																		
ENWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 77	88 76	88 76	88 74	90 74	89 75	88 75	88 75	87 73	87 74	87 77	88 77	88 76	87 76	87 74	88 74	89 75	89 74	88 76	89 75	89 75	88 75	90 74	89 73	87 73	84 74	85 74					87.8 74.8	
KWAJALEIN MISSILE RON	MAX MIN	86 78	87 79	86 77	86 74	85 73	87 76	85 78	84 77	84 77	85 77	85 75	84 74	85 73	85 74	86 73	85 80	85 79	86 78	86 78	86 78	86 78	86 79	86 80	87 78	87 79	87 78	87 79					85.8 77.0	
LELE I KOSRAE	MAX MIN	89 76	87 73	88 75	90 75	89 75	91 74	89 74	88 73	88 75	89 74	89 74	89 75	89 77	91 74	85 75	87 74	88 75	86 74	87 74	86 73	89 74	86 73	87 73	88 73	88 72	88 73	87 73					88.0 74.1	
MAJURO WSO AP	MAX MIN	86 76	86 79	86 78	87 76	84 74	83 76	85 78	85 77	85 77	85 77	84 77	86 75	85 76	86 75	86 78	86 76	83 75	84 74	86 75	85 75	86 76	87 77	87 76	87 76	87 78	87 79					85.4 76.5		
METALANIH	MAX MIN	84 76	84 78	85 78	89 78	89 78	85 77	85 77	84 77	83 70	85 70	85 78	84 78	84 73	85 72	85 78	85 73	85 75	84 78	83 73	87 75	84 73	88 73	88 73	86 73	87 74	87 76	87 73					85.3 75.0	
PONAPE WSO	MAX MIN	86 78	88 78	88 78	89 79	89 79	88 78	88 78	87 77	87 71	88 71	89 75	87 73	85 73	87 76	87 77	86 74	87 73	87 77	88 78	86 77	87 77	88 78	86 77	87 77	87 75	88 74	88 75					87.3 75.6	
SATAWAN ATOLL		MAX MIN																																
TRUK MDEN I WSO AP	MAX MIN	86 78	86 79	86 79	89 79	88 79	87 79	86 77	86 78	87 77	86 77	87 77	86 77	86 75	86 79	86 80	87 76	86 75	86 75	87 79	86 79	86 79	87 79	86 78	87 76	88 76	87 79	87 77					86.7 77.6	
WOLEAI ATOLL		MAX MIN																																
YAP WSO AP	MAX MIN	87 78	88 75	88 72	87 74	88 73	88 73	88 73	88 74	88 74	88 75	88 75	87 73	87 74	87 72	87 74	87 73	88 73	86 73	81 74	88 73	88 72	88 72	87 72	87 71	84 70	88 73	88 73					87.1 73.2	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LINE 450 AP 1020.1	EVAP	.11	.25	.10	.45	.11	.25	.10	.06	.06	-	.07	.69	.18	.17	.25	.19	.12	.18	.16	.28	.11	.16	.03	.21	.06	.09	.22				5.048
	WIND	278	233	111	118	70	65	69	74	56	56	290	274	252	252	233	242	148	92	73	45	112	-	-	-	-	-	-	-	-	-	39998
	MAX	75	74	79	74	72	76	72	68	79	72	77	78	75	73	84	80	82	78	76	80	80	77	77	78	76	82	79				76.7
	MIN	59	58	54	56	55	54	54	59	61	64	53	52	57	55	54	52	60	60	61	58	60	62	61	60	62	63	65				58.3
ISLAND OF OAHU																																
HINOLUO OBSERV TOL 2	EVAP	.23	.30	.22	.21	.08	.07	.20	.06	.00	.10	.15	.15	.15	.18	.15	.10	.00	.02	.10	.16	-	.11	.15	.21	.16	.15	.15				3.858
	WIND	45	31	36	72	27	18	15	10	22	67	34	59	35	30	27	21	14	11	6	59	44	25	16	12	17	15	13	24			795
	MAX	84	81	82	79	82	73	81	80	75	72	77	77	75	73	80	81	73	73	67	74	77	85	85	87	80	85	85	87			78.9
	MIN	58	58	59	62	61	60	60	65	66	66	59	52	54	54	58	58	62	64	64	64	64	65	62	62	64	64	63	63			61.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
PACIFIC																																
■ ■ ■ EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.31	.23	.27	.40	.35	.25	.16	.01	.00	.30	.29	.32	.26	.34	.21	.24	.22	.26	.34	.35	.28	.32	.29	.27	.31	.31	.39	.23		7.51	
	WIND	171	157	162	265	164	191	204	192	107	138	206	245	220	222	202	140	114	110	125	132	89	114	182	175	131	202	221	169		4750	
PAGO PAGO WSO AP	EVAP	.25	.27	-	-	-	-	.23	.30	.32		.53	.40	.29	.28	.39	.19	.07			.17	.25	.38	.23	.33	.31	.29	.10	.17		7.678	
	WIND	149	63	70	33	33	94	137	152	184	133	100	109	105	67	65	130	67	95	130	135	103	69	137	157	166	128	70	45		2926	
	MAX	90	90	100	96	92	93	95	93	94	96	101	100	100	100	94	99	87	85	98	99	99	95	94	99	94	97	89	97		95.2	
	MIN	77	74	75	76	79	77	79	79	79	77	75	75	75	75	73	74	75	73	72	70	69	70	71	74	68	71	72	71	71		73.9
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSO	EVAP	.27	.22	.24	.22	.24	.22	.17	.24	.18	.25	.23	.19	.26	.23	.34	.27	.13	.28	.24	.23	.28	.21	.21	.27	.19	.26	.30	.31		6.68	
	WIND	-	-	-	-	-	-	65	78	111	104	166	165	105	147	211	127	133	162	70	40	58	78	50	60	96						
	MAX	85	85	85	83	85	86	86	85	87	87	86	85	85	84	86	87	85	84	84	81	84	87	90	89	89	91	88	77		85.6	
	MIN	67	69	68	69	68	67	66	69	65	65	67	66	66	66	66	67	69	70	66	68	68	68	64	65	68	68	67	70		67.2	
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP	.28	.29	.22	.21	.21	.28	.17	.24	.24	.21	.30	.30	.23	.37	.37	.30	.21	.29	.03	.18	.36	.15	.28	.25	.09	.23	.21	.24		6.74	
	WIND	124	101	78	82	67	93	68	71	90	118	119	101	85	104	120	94	89	39	41	100	102	49	42	49	34	71	74	84		2445	
	MAX	95	94	92	91	93	93	91	93	92	91	95	93	94	93	94	94	95	90	82	95	96	94	90	95	90	94	91	86		92.4	
	MIN	75	75	75	75	74	74	75	75	75	72	72	73	73	73	73	72	76	76	75	74	74	74	73	72	72	73	73	73		71.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANANANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600					LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HOKIPO 945	2161	03	WAIHEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3094	03	WAIHEA	3	22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175					LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIHEA	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIHEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	H 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU	1	22 11	159 23	560		8A			PRAWNS OF HAWAII INC
KUKULULA 935	H 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIHEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIHEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIHEA	3	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIHEA	2	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NLO RIDGE 1035	6850	03	WAIHEA	3	22 02	159 44	1250	5A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	H 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	H 6893	02	LIHUE	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIHEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	H 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIHEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIHEA 947	9629	03	WAIHEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIUMANU LOOP 839.12	0054	01	KOOLAUPOKO	1	21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760					DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19												
HELEMANO INTAKE 881	1308	02	OAHU	2	21 18	157 39	21					HAWAII KAI GOLF COURSE
HOKULOA 725.2	1384	05	WAIALUA	5	21 33	158 00	1274					WAILUA SUGAR CO INC
HONOLULU OBSERV 702.2	A 1540	03	EWA	3	21 24	158 06	2260					WILLIAM M KIRKPATRICK
HONOLULU WSO 703 AP	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
KAENA POINT 841.3	A 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAHANA 883	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTD

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					KULIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10					KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400					CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	200		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					FAR
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 01	1060	7A				WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	495		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULOA	1	21 35	157 54	30					NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 38	158 02	750					JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854					WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	40	7A	7A			WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			J H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120					U H WAIMANALO EXP FARM
WAIMER 892	9593	05	WAIALUA	5	21 38	158 04	330					WAIALUA SUGAR CO INC
WAIPIHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070					MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700					CHARLIE APIA FOREMAN
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A
KAUMALAPU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S D A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)			
ISLAND OF MAUI														
AIWAHI 257	A 0175	02	HANA	2	20 37	156 20	2060		VAR				ULUPALAKUA RCH CO LTD	
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C		MAUI LAND-PINEAPPLE CO	
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO				MAUI LAND-PINEAPPLE CO	
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF H AGRIC EXP STA	
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A				HALEAKALA RANCH CO	
HOLEAKALA R 3 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK	
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI LAND-PINEAPPLE CO	
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO	
HANA 354	1122	01	HANA	1	20 45	155 59	120				C		HARRY HASEGAWA	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 31	61	8A	8A				ROYAL HAWAIIAN AIRLINES	
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO				HALEAKALA NATL PARK RGS	
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI LAND-PINEAPPLE CO	
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI LAND-PINEAPPLE CO	
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO				MAUI LAND-PINEAPPLE CO	
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO				HALEAKALA RANCH CO	
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A				AMFAC PROPERTIES INC	
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C		EDWARD CHANG	
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		MO				PIONEER MILL CO LTD	
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C	J	NATL WEATHER SERVICE	
KAILILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTD	
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTD	
KAUAKULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI				PIONEER MILL CO LTD	
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C		KAUPO RANCH CO	
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO	
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO				E MAUI IRR CO LTD	
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C		ALLEN L CORELL	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A				HAWAIIAN COM & SUG CO	
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH-KIPAHULU SEC	
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO				MAUI LAND-PINEAPPLE CO	
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM	
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C		PIONEER MILL CO LTD	
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI				PIONEER MILL CO LTD	
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTD	
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTD	
MAHINAHINA 456	A 5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTD	
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO				MAUI LAND-PINEAPPLE CO	
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR				MAUI LAND-PINEAPPLE CO	
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				E MAUI IRR CO LTD	
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A				PIONEER MILL CO LTD	
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C		E MAUI IRR CO LTD	
PAHA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM & SUG CO	
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO				KAUPO RANCH CO	
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830				C		BERNARD RUPLINGER	
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO	
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR				STATE DIV OF FORESTRY	
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTD	
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM & SUG CO	
PUU PAHI 352	A 8553	01	HANA	1	20 46	156 04	2160				S		E MAUI IRR CO LTD	
SPRICKELSVILLE 400.1	8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM & SUG CO	
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310						KAOHOLU RANCH	
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A		C		UH MAUI AGRI RESCH CNTR	
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO	
UKUMEHANE 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTD	
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C		ULUPALAKUA RCH CO LTD	
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTD	
WAIHEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO	
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO	
WAIKAMOI 445	A 9332	01	HANA	1	20 52	156 12	1200		MO				E MAUI IRR CO LTD	
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320				C		E MAUI IRR CO LTD	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A				WAILUKU SUGAR CO	
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S		E MAUI IRR CO LTD	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A				WAILUKU SUGAR COMPANY	
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC				HALEAKALA RANCH CO	
ISLAND OF HAWAII														
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO				W H GREENWELL RANCH	
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A				NAT HISTORICAL PARK	

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9200		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCONS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	46	MID	MID		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MI			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		MI			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 24	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		OH			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 54	1000		9A			FLOYD W MC TOY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	1		VAR			HAWAII VOLCANOES NAT PK
KAMADA 2 5	A 3048	03	KA'U	3	19 10	155 40	1375		MI			PARKER RANCH KA'U DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	1145		FA			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	6A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	240		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		MI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	1	19 38	155 02	285		8A			PUNA SUGAR CO
KEAUA CAMP 22.1	3925	03	KA'U	3	19 14	155 34	1700					KA'U SUGAR CO INC
KEALAKEUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1930					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MI			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		MI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		MI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	155 01	30					FAA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 54	20		8A			KONA VILLAGE RESORT HTL
KUKAIUA 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		MI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		MI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CLOSED 1/31/79
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KA'U	3	19 11	155 30	600		MI			PARKER RANCH KA'U DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PARUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUN SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA	2	19 30	154 57	683					GEORGE SALAZAR
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
POHAKULOA 107	A 8463	02	HAMAKUA	2	19 45	155 32	6511				C	STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			
CLOSED STATIONS												
ISLAND OF HAWAII												
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CLOSED 1/31/79

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
FEBRUARY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAO	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID		J	JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P		J	REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

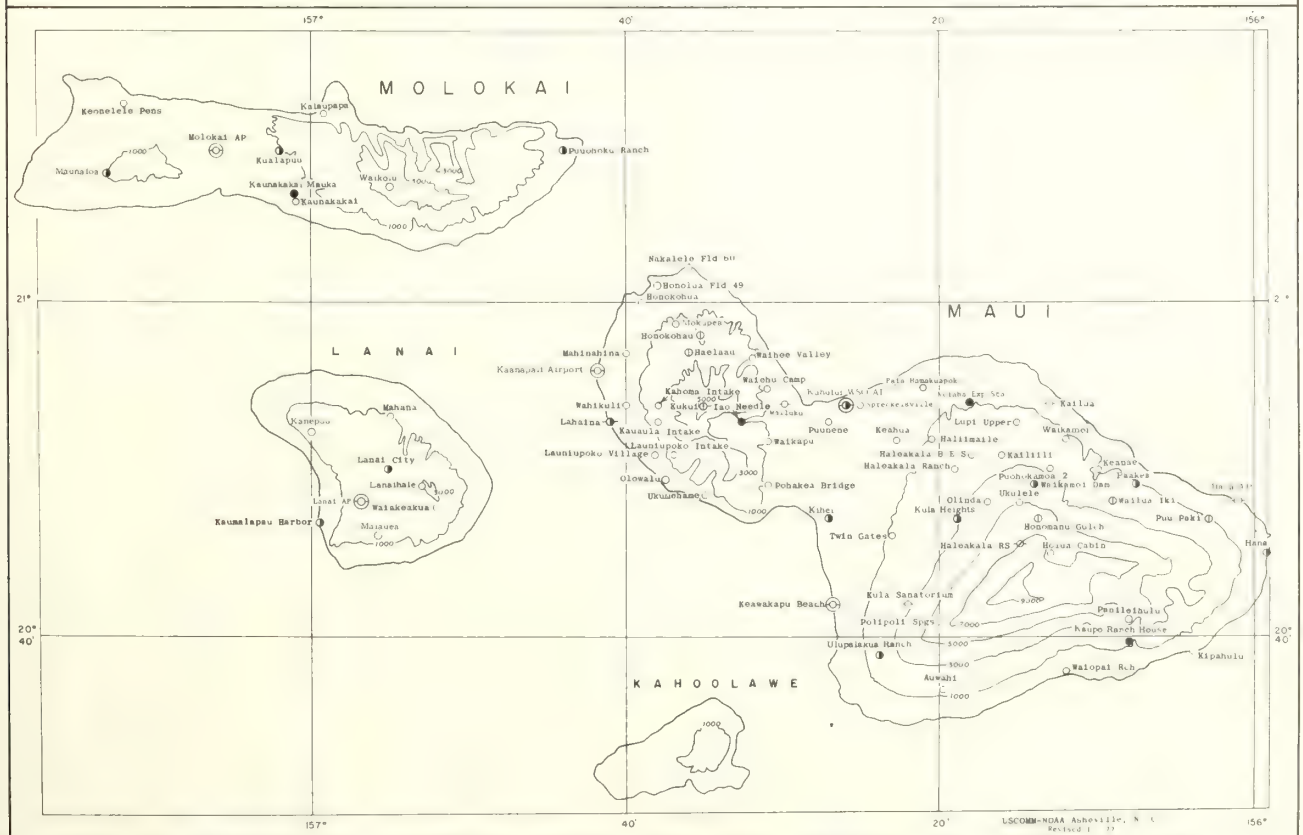
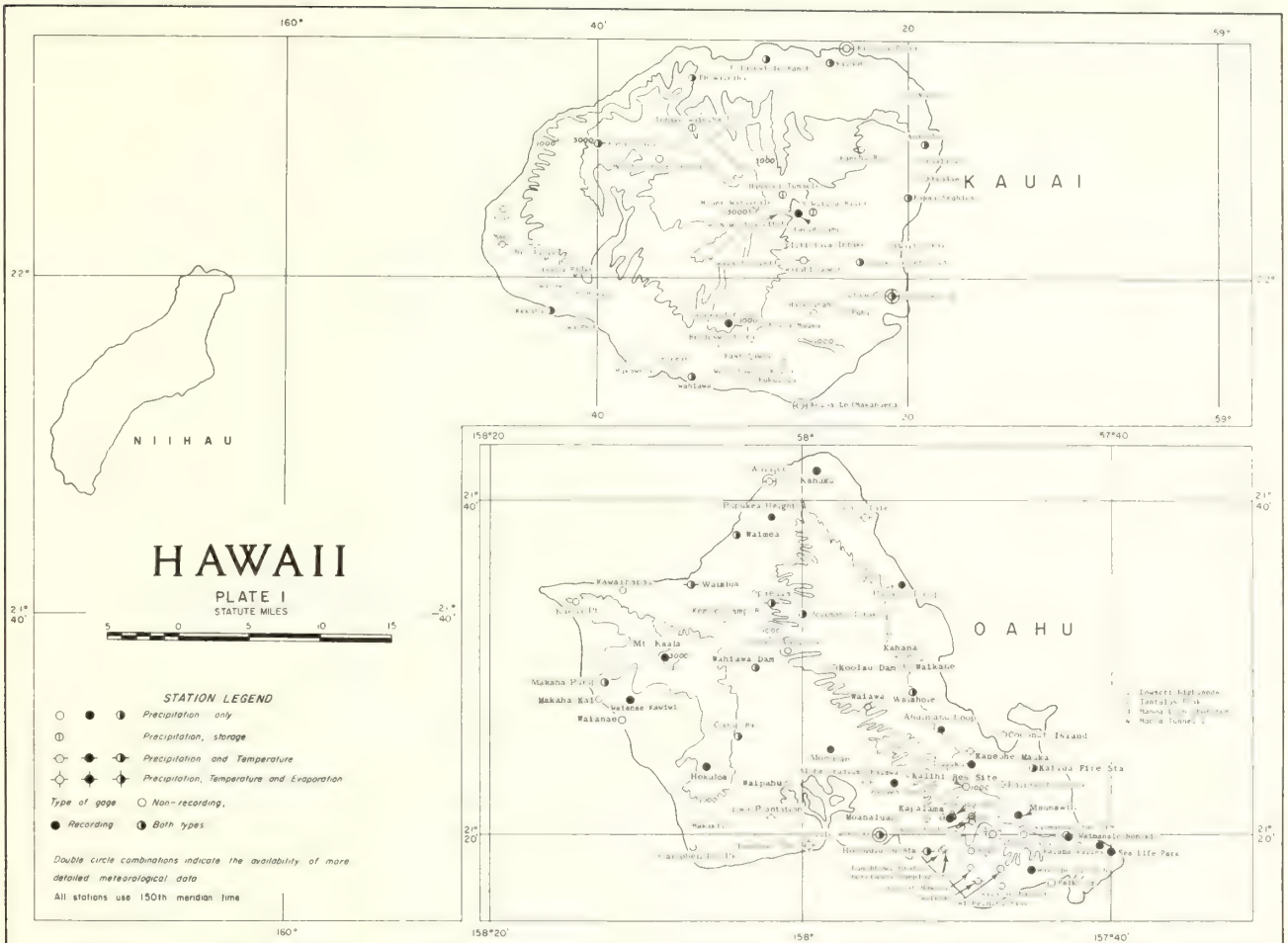
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

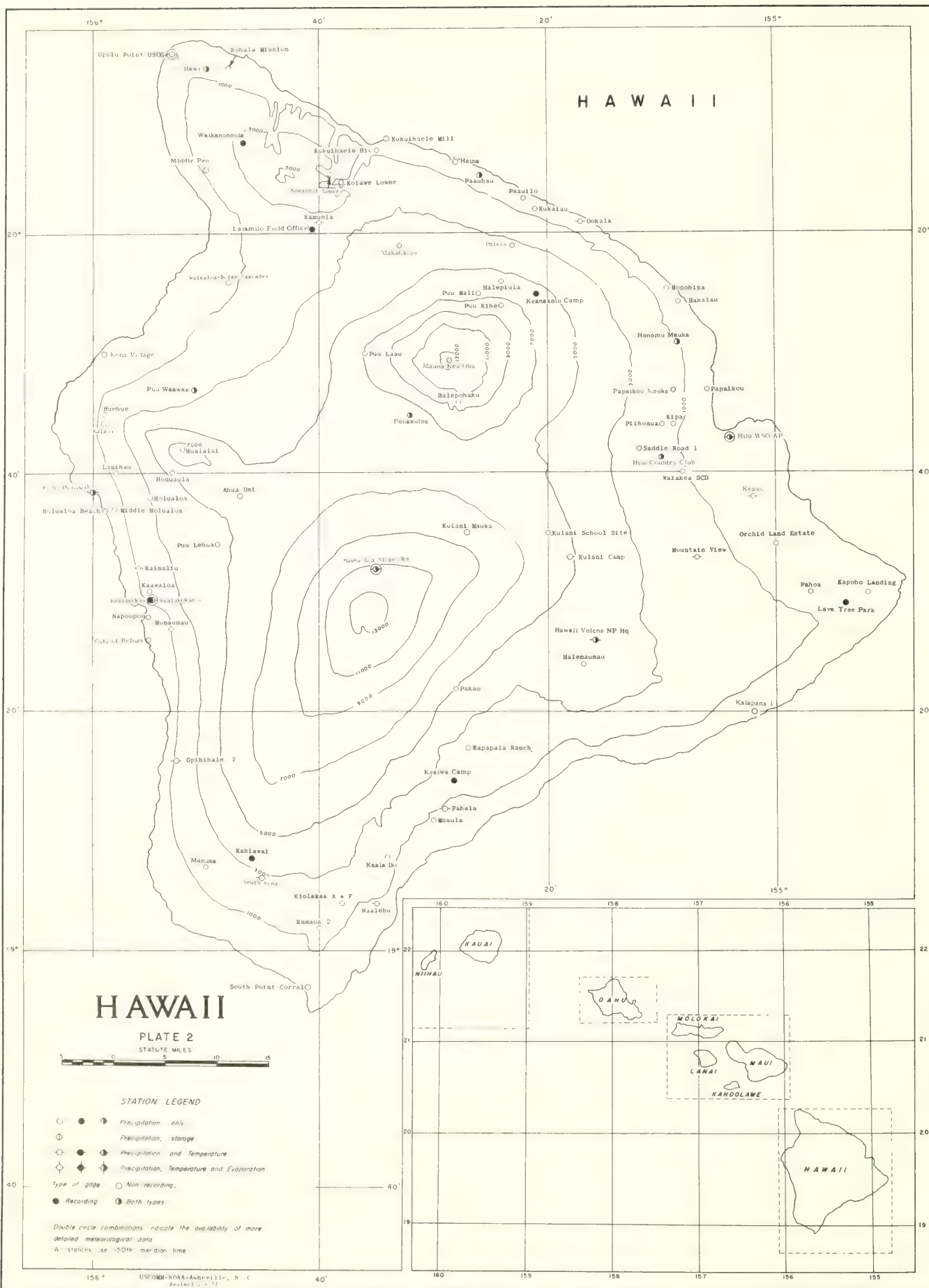
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

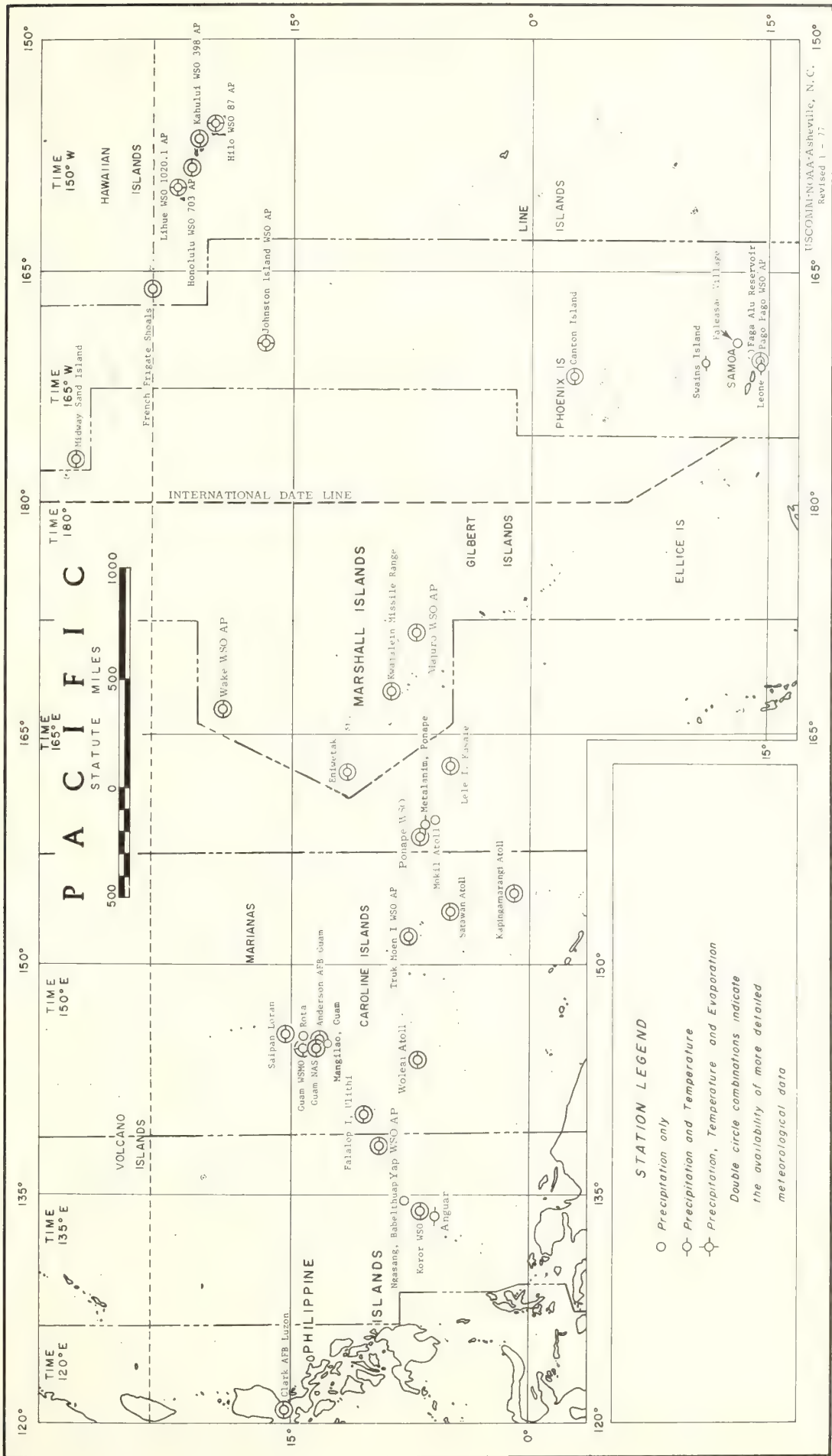
Subscription Price: \$5.10 per year for each section including annual summary; \$8.00 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

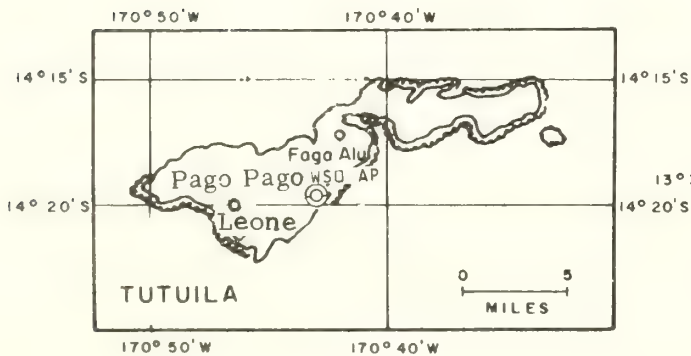
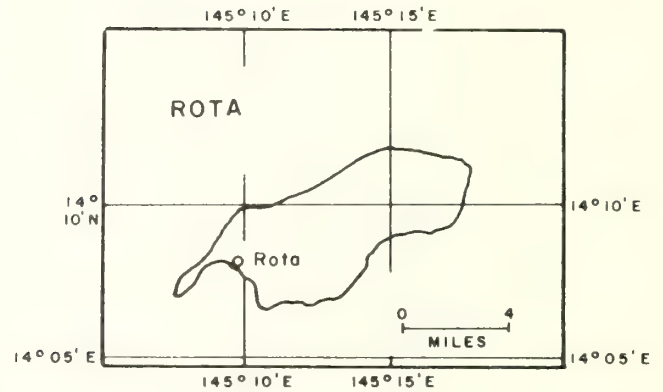
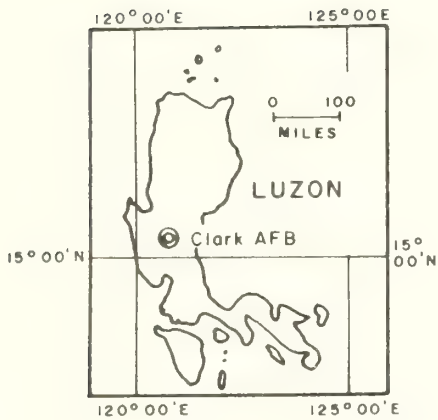
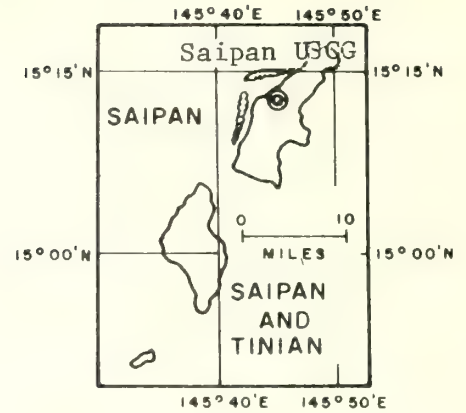
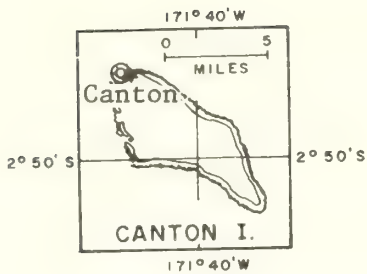
USCOMM-NOAA-ASHEVILLE, N.C. 1979-930



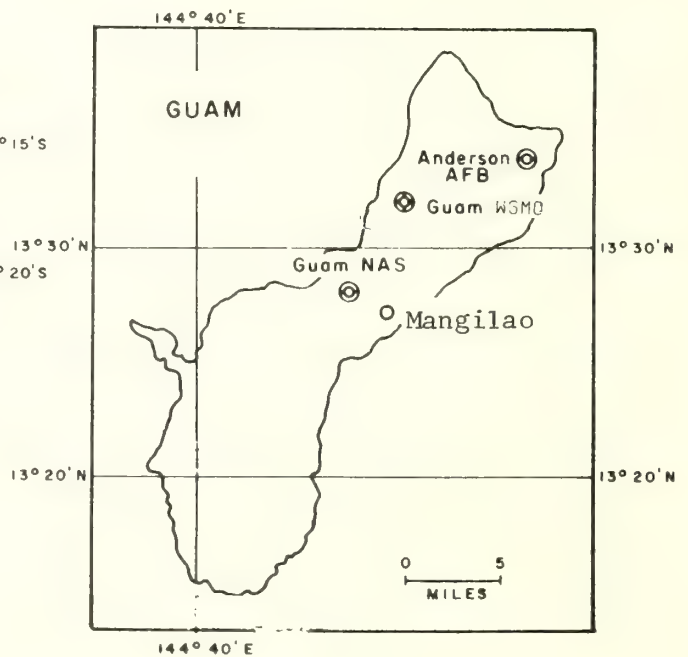


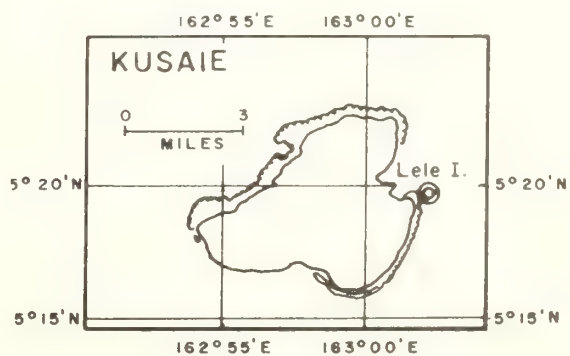
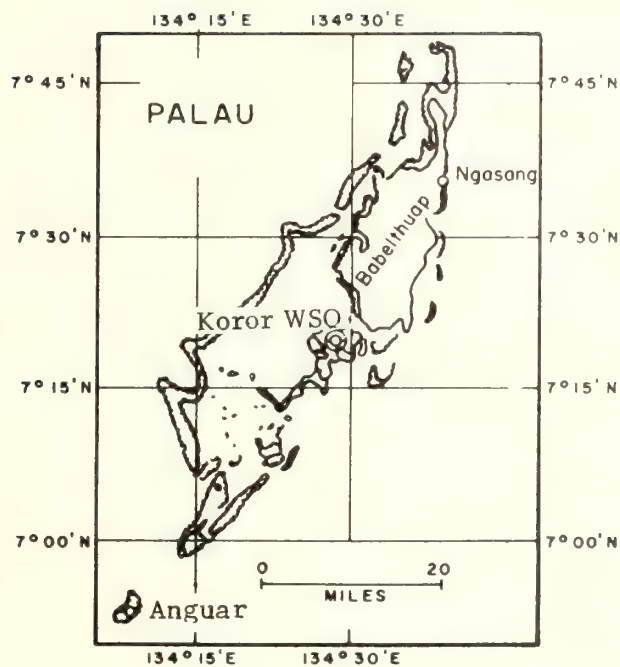
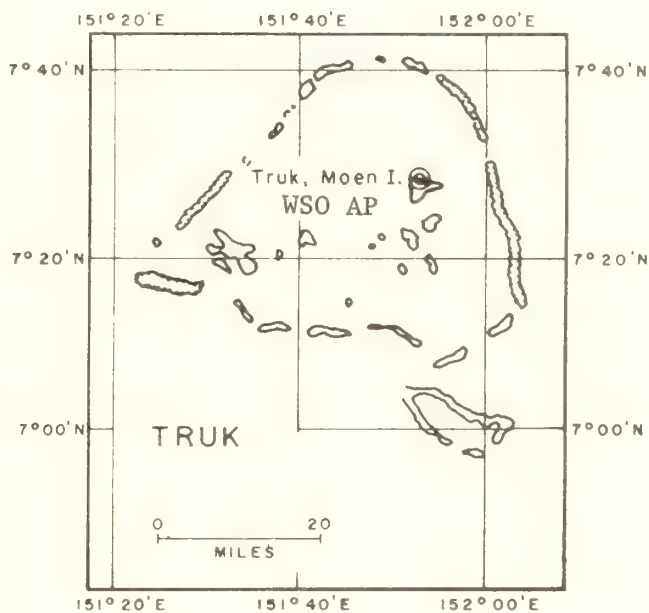
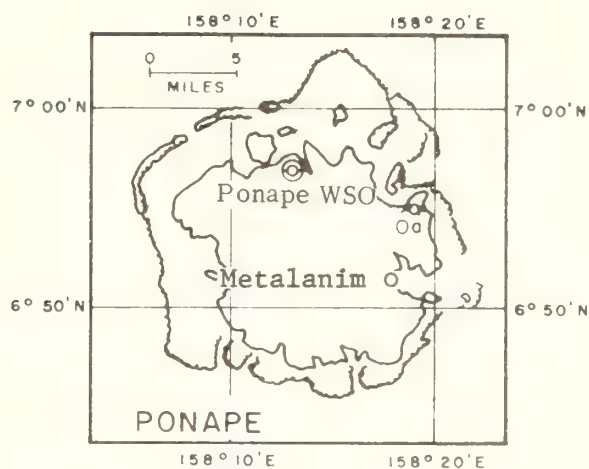
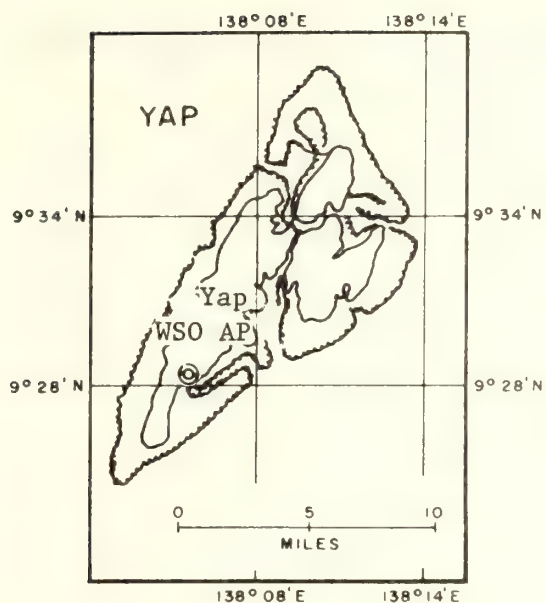
Data for non-recording stations shown on this map may be found in the publication Climatological Data.



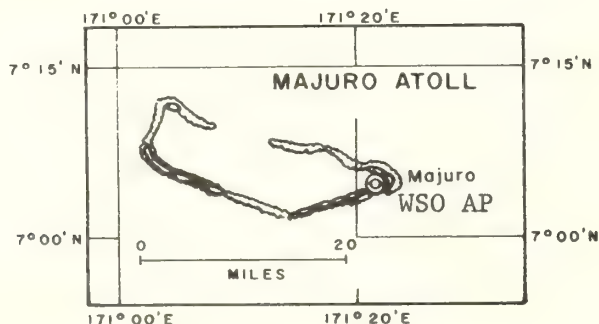
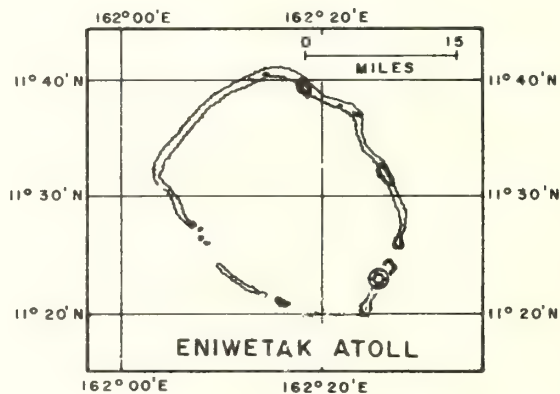
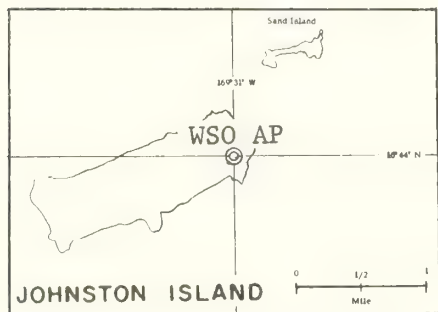
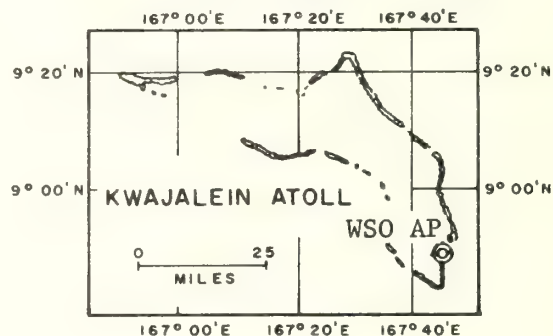
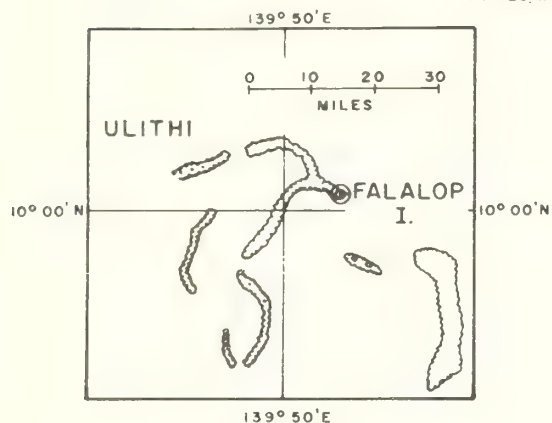
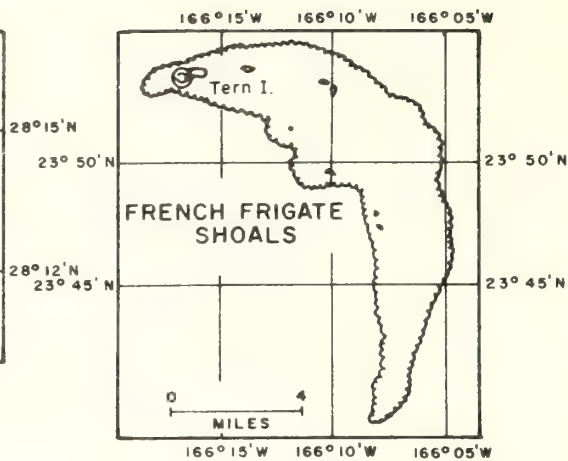
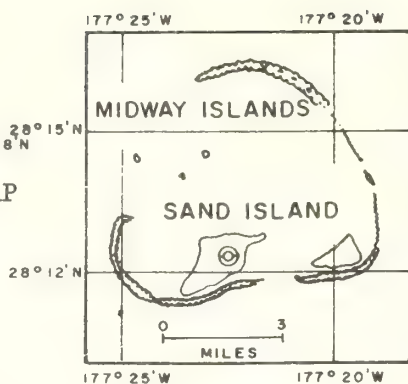
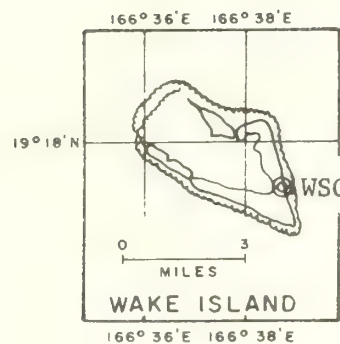


Reef





— Reef



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210



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19710 1973

Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	ALOHA STADIUM-HALAWA	OAHU	90	DATE	08
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	19	DATE	25
GREATEST TOTAL PRECIPITATION:	HANA AIRPORT 355	MAUI	17.51		
LEAST TOTAL PRECIPITATION:	3 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	HAMAKUAPOKO 485	MAUI	5.53	DATE	28

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE - TENTHS	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-		26	E	31	-	75	72	85	1	9	5	2	1	0	18	53	8.0	
HILO WSO 87 AP	13	1.6	6.2	22	S	27	83	77	63	80	3	7	10	0	2	0	22	51	6.4	
HONOLULU WSO 703 AP	6	4.9	9.9	28	NE	09	79	75	57	70	4	2	1	1	0	0	8	77	5.4	
JOHNSTON WSO AP	8	16.1	17.4	35	E	16	79	80	71	79	8	14	3	0	0	0	25	82	4.1	
KAHULUI WSO 398 AP	6	6.4	11.4	30	SW	27	-	81	59	76	3	2	2	0	0	1	8	73	4.3	
KOROR WSO	5	6.3	7.8	20	NE	07	85	-	76	72	2	13	7	0	2	1	25	77	7.6	
KWAJALEIN MISSILE RGN	6	17.8	18.0	25++	S	25+	77	78	66	71	9	4	2	1	0	0	16	-	8.2	
LIHUE WSO 1020.1 AP	6	5.3	10.3	24	SW	27+	81	79	63	77	5	6	3	1	0	0	15	66	5.9	
MAJURO WSO AP	6	14.2	14.6	30	E	08	80	81	73	77	5	10	6	0	0	2	23	73	9.6	
PAGO PAGO WSO AP	7	4.8	9.5	27	NW	23+	87	89	72	81	7	6	6	3	1	1	24	42	7.5	
PONAPE WSO	-	-	-	17	NE	20	79	-	74	78	5	8	3	3	3	2	24	27	9.4	
TRUK.MOEN I. WSO AP	4	10.4	11.4	27	SW	19	79	-	75	75	3	7	8	2	3	0	23	38	9.8	
WAKE ISLAND WSO AP	9	7.0	10.0	32	NE	31	86	86	71	74	6	4	5	1	0	0	16	82	4.5	
YAP WSO AP	7	6.7	8.3	20	NE	28	86	-	74	72	3	7	2	1	2	1	16	63	7.9	



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MARCH
1979

STATION	TEMPERATURE										PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS					
										MAX.	MIN.	32° OR BELOW	32° OR BELOW					TOTAL	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																									
ISLAND OF KAUAI																									
ANAOHOLA 1114	A													.87		.46	27				2	0	0		
KANALOHU LUMLU 1075		65.5	45.6	55.6		70	18+	39	1	0	0	0	0	2.65		.92	27				7	1	0		
KILAUEA POINT 1133		78.4M	67.3M	72.9M				64	29+	0	0	0	0	1.41		.33	26				5	0	0		
KOLOA 936	A													1.62		.71	27				5	1	0		
LITHUE WSO AP 1020.1	//R	79.1	64.8	72.0		84	12	58	29	0	0	0	0	1.26	- 3.41	.71	26				4	1	0		
MAHA 1026														.77	- 1.89	.62	27				2	1	0		
N. WAILUA DITCH 1051	A													5.27											
PAH. WAINIHA 1115														1.49	-13.84	.61	27				4	1	0		
PUEHU RIDGE 1040														1.66	- 1.59	1.39	27				3	1	1		
WAIHANA 930	A													1.07	- 2.47	.69	27				3	1	0		
WAIHAI LOWER 1054		77.2	56.4	66.8		80	19+	53	31	0	0	0	0	3.19	- 7.67	1.27	27				4	2	1		
WAIHAI 947		79.0M	61.1M	70.1M		87	13	55	30	0	0	0	0	1.34	- .88	1.27	27				1	1	1		
ISLAND				67.5										1.88											
ISLAND OF OAHU																									
ALOHA STADIUM HALAWA	M	80.6	66.1	73.4		90	8	58	25	1	0	0	0	1.12		.48	9				0	0	0		
B. Y. U. LAIE 903.1						83	26	58	26	0	0	0	0	1.33		.57	19				3	1	0		
HONOLULU OBSERV 702.2		81.4	59.9	70.7		87	19	54	25	0	0	0	0	.61		.49	27				1	0	0		
HONOLULU WSO 703 AP	R	81.1	64.5	72.8	- .2	85	18+	58	25	0	0	0	0	.77	- 2.41	.57	27				2	1	0		
KANEHUE MAUKA 781		77.4M	66.9M	72.2M	1.0	82	8+	64	25	0	0	0	0	2.07	- 5.95	.81	27				6	2	0		
KOOLAH DAM 833	A													2.92		1.11	20				8	1	1		
MANOA LYON ARBORETUM		77.3	61.6	69.5		82	19+	55	25	0	0	0	0	3.57		.64	20				8	4	0		
NUUANU RES 4 783														2.14	-10.84	.94	27				5	2	0		
OPAELEA 870	A	80.7M	63.2M	72.0M	5.2	85	22+	55	25	0	0	0	0	3.52	11.37	1.16	18				7	3	1		
PAPOLO VALLEY 718	R																								
WAIKOLE 837	A													2.67											
WAIKOLE 895.3		77.0M	64.9M	71.0M		82	27	61	25+	0	0	0	0	1.85		.85	27				4	1	0		
WAILUUA 847	A	80.0	59.2	69.6	.5	86	27	54	12+	0	0	0	0	.94	- 2.90	.30	27				4	0	0		
WAIKIKI 717.2		82.4	62.9	72.7		85	18+	57	25	0	0	0	0	1.41		.72	27				3	1	0		
WAIMANALO EXP. FM 795.1														3.95		2.73	19				3	2	1		
WAIPIHU 750	A													.36		.13	27				2	0	0		
ISLAND				71.5										1.95											
ISLAND OF MOLOKAI																									
MOLOKAI AP 524																									
ISLAND																									
ISLAND OF LANAI																									
LANAI CITY 672	A	72.4	57.9	65.2	1.1	78	19	52	11	0	0	0	0	1.40	- 3.12	.75	9				1	0			
ISLAND				65.2										1.40											
ISLAND OF MAUI																									
HALEAKALA B.E.S. 434	A	60.3	40.9	50.6	.4	67	19	32	24	0	0	1	0	5.82		3.11	9				5	2	2		
HALEAKALA R.S. 338		75.7M	64.4M	70.1M		83	10+	59	1	0	0	0	0	2.80	- 2.91	1.32	28				3	2	2		
MAHA AIRPORT 355														17.51		5.42	12				14	6	5		
HONOKOHUA 493	A													2.15		1.10	28				1	1	1		
KANAPALI AP 453.1		80.2	62.6	71.4		83	20+	59	24	0	0	0	0	1.45		.86	9				2	1	0		
KAHULUI WSO 398 AP	R	80.8	61.9	71.4	- .8	84	17+	56	25+	0	0	0	0	2.80	- .07	2.18	27				3	1	1		
KAILUA 446		74.0	62.7	68.4	.3	80	30	57	5+	0	0	0	0	4.92	- 8.04	1.40	9								
KEANAE 346	A													9.70											
KIPAHULU 258														7.45	- 1.90	1.65	28				18	3	1		
KULA SANATORIUM 267		68.3	51.0	59.7	- 1.5	71	18+	49	24+	0	0	0	0	3.42	- .11	2.00	28				4	3	1		
LAHAINA 361		81.9	62.4	72.2	.4	85	5	60	24+	0	0	0	0	1.30		1.10	28				2	1	1		
PAIA 406														4.39	.21	2.98	28				5	2	1		
WAILUKU 386	A													1.20	- 2.96	.77	28				3	1	0		
ISLAND				66.3										3.95											
ISLAND OF HAWAII																									
HAWAII VOLCANO NP HQ 54	P	66.0M	49.5M	57.8M	.0	73	30	41	5	0	0	0	0	5.31	- 6.44	1.06	10								
HIC WSO AP 87		79.9	63.0	71.5	.4	87	27	58	26+	0	0	0	0	5.32	- 8.37	1.20	1				12	2	2		
HUEHUE 92.1														1.95		.91	19				3	2	0		
KAILUAHUA 73.2		76.5	59.2	67.9		80	29+	55	30	0	0	0	0	1.14	- 4.02	.47	7				4	0	0		
KAPOHO BEACH 94.11		81.8	65.0	73.4		87	30	57	5	0	0	0	0	2.82		.61	21				7	1	0		
KEEAU 92														4.30	- 5.56	1.90	10				7	3	1		
KULAHAELE HIC 199														5.78		1.58	10								
KULANI CAMP 74		62.0M	43.8M	52.9M		70	29	37	4	0	0	0	0	1.08		.58	2				2	1	0		
MAHA 21	A													.00		.00					0	0	0		
PL. KOHOLA HETAJ 98.1		84.9	64.1M	74.5M		88	11+	56	19+	0	0	0	0								0	0	0		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MARCH 1979

STATION	TEMPERATURE											PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	-50 OR MORE	100 OR MORE
										32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW										
HAWAII SOUTH KONA 2.31 WAIKAKA SCD 88.2 ISLAND	70.9	55.4	63.2		79	19	50	25+		0	0	0	0	.99 10.03 3.52		.30 2.39	28 10	.0 .0 .0	0 0 0		4 14	0 7	0 3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MARCH
1979

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
											MAX.	MIN.	800 AM TO 2000 PM	2000 PM TO 2400 PM	2400 PM TO 800 AM					TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
PACIFIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

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HAWAII AND PACIFIC
MARCH 1978SEE REFERENCE NOTES FOLLOWING STATION INDEX

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DAILY PRECIPITATION

HAWAII AND PACIFIC
MARCH
1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
NAP00000 28	A	.31	x	x	x		x	12	x		x	x	x	13								x	x									
00KALA 223		5.75	.26	.21				.08			.67	1.73	.07			.03	.05	.01		.30	.92											
00IMHALE 2 24.1		1.19	.01	T	T			.04	.03	T	.05	.01	.01	T			.12	.04	T	T	T	.15										
00CHID LAND EST 91.5	A	11.16	x	5.42	x	x	x	x	x	1.11	x	x	x	x	x	x	2.85	x	x	x	x	T	.11	.06								
PARAHU 217		2.80	.20	.11				.29			.67	1.19	.07						.03	.04												
PARULB 221		3.65	.09	.33				.05			.83	2.20				T		T														
PARULA 21	A	1.08		.58		.01		.01			.03					.02																
PAHUA 65		x	.48	2.53	x	x	.25		.01	10	.06	.85	x	x	2.49	.06	.25	.12	56	x	x											
PAPAIKOU 144.1		x	.18	1.24	x	x	.03				.52	x	x	64	.01	.13	.04	56	x	x												
PAPAIKOU PAUKA 140.1	A	10.31	.44	1.51	x	x	.15	.09			.96	x	x	2.35	.03	.31	.12	79	x	x												
PIIHOMUA 89	A	17.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PUUKOHOLA HEIAU 98.1		.00																														
PUU LEHUA 73	A	.55	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
SOUTH KONA 2.31		.98	.10	.28	.04																											
UPOLU POINT USCG 159.2		1.76	.03	T				.06				15	26				.06	.01	41	.08												
WAIKAKA SCD 88.2		10.03	.19	1.07	11																											
WAIKALOA-BOYS CAS 95.8		.07					.01		T	1.67	2.39	T		.04	.57	T	.07	24	16													

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
MARCH 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH																																	
MERIDIAN																																	
ATU I	11.41	x	x	x	x	x	x	x	x	x	x	x	x	x	2.03	.49	.09																
CANTON ISLAND	1.96			.03	.22					.21	.03				.03																		
FALEASAO VILLAGE	15.04	.31	.82	.11		1.04				.46	.72	.18			.15																		
JOHNSTON IS WSO AP	.87	.05	.01	T			.03	T		.03	.01	T			.06																		
FRENCH FRIGATE SHOALS																																	
MIDWAY SAND ISLAND	3.60		.09	.33	T	.53	.15					1.13		.23		.57	.02	T															
MALAELOA	13.36	.01	.12	.05	.20			.10		.02	.18				.99	3.04																	
PAGO PAGO WSO AP	9.03	.02		.08	T		.01					.03	T			.40	1.49	T	.75				.12	.45	.19								
* * *																																	
WESTERN PACIFIC ISL.																																	
NORTH OF 12 N																																	
AGAT	4.12	.40			.53	.70			.10	.12				.90	.22																		
ANDERSEN AFB GUAM	4.40	1.04	.01	.19	.36	.02	T		.31		.05			.46	.78	T			.08			.78	.02	.20									
CLARK AFB LUZON	T																																
DEDEGO	7.66	1.17		.50	.46	.20			.90	.27	.27		.27	.60	.45		.14	.20				.29	T	.78	.06			.15		.05			
GUAM NAS																																	
GUAM WSO	4.20	1.17	.08	.30	.28		.01		.38	.01		.05	.23	.54																			
INARAJAN AG STN	3.82	.01	.35		.41	.40			.42	.43				.74																			
INARAJAN - NASA	2.92	.05	.08	.14	.53	.10		.12	.02	.01		.01	.04	.65																			
MANGILAO	4.01	.81	.20		.23	.12		.05	.26				.01	.86																			
ROTA																																	
SAIPAN LOBAN																																	
UMATAK	1.78	.15	T	.03			T		.30	.60		T	T	.05	T	T																	
WAKE ISLAND WSO AP	1.53				.42	.13		.17	.14	.11	T			.98		.02		T	T	T	T	.65											
YTOD	4.97	1.07	.02		.26	.78		.12	.20	.27						.03																	
* * *																																	
CAROLINE AND																																	
MARSHALL ISLANDS																																	
ENHETAK																																	
FALALOP I ULITHI ATOLL																																	
KAPINGMANGI ATOLL																																	
KOROR WSO	7.96	2.65	1.56	.28	1.48	.06		.08	.07	.44	.03	.01	.01	.09	.27	T																	
KWAJALEIN MISSILE RMN	1.08		.23					T					.56	.06	.01	.18																	
LELE I KOSRAE																																	
MARUJO WSO AP	7.14	T	.07			.19	.24		.38	.01		.01	.02	.01	.01	2.07	.42	2.85	.44	T													
METALANIM	7.90	T		.09	.14	.04		T	.04	.11	1.29	.06	.03	.37	.74	.04		.20	2.65	1.03	.11	.12											
NGASANG-BABELTHUAP	8.01	.77	.2	.05	.05	2.29	.05	.05		1.13	.28	.03		.22	.02	.01																	
PONAPE WSO	11.98		.03		.02	.01		.02	.04	.98	2.39	.13	T	.58	1.46	.15		.94	1.83	2.38	T	.08											
SATAHAN ATOLL																																	
TAUK MOEN I WSO AP	7.83						.01	.05	.42		1.66	.84	.34		1.18	.31	.80																
WOLEAI ATOLL																																	
YAP WSO AP	7.06	.40	.2	.18	.17	.53	.03		T	.05			.02				1.96	1.58	T														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MARCH
1979

STATION	DAY OF MONTH																																	AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	63 39	67 42	63 42	66 43	69 46	70 43	66 45	59 49	67 46	69 48	63 40	65 43	65 50	66 41	66 46	64 55	69 49	70 43	69 49	67 43	69 41	66 47	66 47	63 43	67 43	60 42	60 51	60 49	61 50	67 50	68 48	65.5 45.6	
KILAUEA POINT 1133	MAX MIN						81 70	78 71	81 67	75 67	77 69	76 68	79 67	81 67	83 69	77 67	78 69	80 67	77 67	77 69	77 69	80 67	80 67	80 67	78 64	77 65	77 66	75 65	81 64	77 65	79 66	79 66	78.4 67.3	
KOLOA LN (MAK) 940.1	MAX MIN	83 68	79 65	81 67	81 67	81 66	83 67	83 65	84 63	77 63	77 67	78 66	83 65	81 65	81 68	80 70	80 69	81 67	80 69	84 67	82 68	81 69	80 67	81 66	80 66	81 63	78 62	79 64	80 63	79 65	80 65	80.6 66.2		
LIHUE WSO AP 1020.1	MAX MIN	79 63	80 64	78 64	80 63	79 62	80 66	79 63	81 67	83 68	78 70	84 66	81 63	78 67	78 70	78 68	78 62	79 65	78 68	78 70	79 65	78 62	79 65	78 62	77 61	81 60	80 64	82 60	79 58	78 61	77 61	79.1 64.8		
NIU RIDGE 1035	MAX MIN	77 58	75 57	79 58	76 61	79 57	78 59	81 60	79 57	79 58	80 55	79 57	79 54	76 59	76 57	78 57	79 57	81 59	80 62	79 59	80 60	79 59	78 58	80 57	82 59	75 58	81 59	72 59	73 59	72 61	74 53	77.9 58.4		
WAIHAI LOWER 1054	MAX MIN	76 57	77 55	77 56	76 57	79 56	80 55	79 56	80 55	74 55	76 57	77 56	79 55	77 54	75 51	78 58	76 57	77 63	78 55	80 55	76 55	77 56	77 58	78 57	77 55	76 55	74 55	77 56	78 55	78 54	77 53	77.2 56.4		
WAIMER 947	MAX MIN	78 59	77 58	75 63	76 64	76 65	76 63	77 57	78 60	76 57	74 59	77 62	87 57	80 62	81 61	82 58	83 69	83 61	82 65	82 64	82 64	82 64	81 59	81 60	81 63	78 62	78 63	74 61	78 62	77 55	79 64	79 61	79.0 61.1	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	79 61	80 62		84 60	85 64	85 62	90 63	73 66		82 62	85 63	82 68	78 69	80 68				86 62	80 67	80 64	77 66	80 67			58		84 66	83 59	82 60	83 60			
B Y U LAIE 903.1	MAX MIN	81 64	80 63	81 65	81 63	81 61	82 62	82 61	80 65	77 68	79 69	80 70	79 66	82 70	81 68	80 68	81 66	82 66	82 66	80 64	81 69	81 69	81 69	81 69	81 68	83 58	81 66	82 65	79 65	78 64	79 64	80.6 66.1		
HONOLULU OBSERV 702.2	MAX MIN	82 58	80 58	80 59	78 60	80 61	81 60	80 59	81 62	81 62	79 62	81 62	80 62	81 59	82 59	80 65	82 66	84 62	85 59	87 63	85 66	84 66	81 60	83 58	83 56	81 54	80 55	81 59	80 56	82 58	79 60	81.4 59.9		
HONOLULU WSO 703 AP	MAX MIN	81 62	82 60	81 63	79 59	81 65	83 65	81 62	72 68	80 68	81 69	81 62	81 64	83 67	81 70	82 69	85 67	84 67	85 62	83 69	82 66	82 66	82 67	81 67	83 60	79 58	80 59	79 64	81 62	79 62	80 62	81.1 64.5		
KANEHE MAUKA 781	MAX MIN	77 67	76 67	76 67	77 65	79 66	82 68	78 66	82 67	80 67	74 67	76 68	78 67	77 67	77 68	78 68	77 68	78 68	81 68	77 68	77 68	77 68	74 66	77 66	76 66	75 64	77 65	77 67	77 67	78 67	79 65	77.4 66.9		
MANOA LYON ARBORETUM	MAX MIN	79 64	78 64	78 63	80 59	80 59	79 63	81 61	82 61	70 62	75 64	77 65	82 60	81 59	75 65	74 66	78 66	77 66	80 62	77 65	75 64	72 65	72 61	71 61	77 55	77 56	79 58	77 57	78 57	77 57	76 59	77.3 61.6		
OPAEULA 870	MAX MIN	79 64	78 64	79 64	79 60	84 65	84 65	84 64	85 65	74 64	73 64	77 58	84 64	84 65	84 63	75 64	76 65	78 64	80 60	85 65	84 64	85 64	85 65	84 65	74 57	76 55	82 64	82 64	82 64	82 64	82 64	80.7 63.2		
WAIALEE 896.3	MAX MIN	76 64	77 65	71 61	78 64	78 63	80 66	78 62	72 65	72 65	75 65	76 67	77 62	79 64	77 65	76 65	77 66	78 66	80 64	71 67	77 68	77 68	76 68	77 67	76 64	77 61	77 62	76 67	78 68	78 67	77 65	77.0 64.9		
WAIALUA 847	MAX MIN	81 60	80 58	78 56	80 56	82 59	83 60	81 62	81 63	70 63	74 56	74 54	82 59	80 60	81 64	78 59	82 60	81 60	82 60	80 60	82 60	80 60	81 57	81 60	82 56	80 56	82 62	79 59	80 61	79 61	80.0 59.2			
WAIKIKI 717.2	MAX MIN	82 61	82 61	83 62	83 60	82 63	83 63	85 60	84 61	78 66	80 67	81 63	82 65	81 68	84 66	85 68	83 66	84 66	85 62	84 66	83 64	82 64	82 66	82 63	84 66	82 62	84 57	83 59	83 66	81 66	80 59	82 61	82.4 62.9	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	74 57	74 57	74 56	74 55	79 56	76 57	78 59	76 64	74 58	74 60	76 56	77 54	75 54	75 55	79 59	77 58	79 61	78 63	78 60	77 57	76 61	76 60	76 59	74 54	76 53	78 61	75 64	75 63	75 58	76 58	75.8 58.4		
LANAI CITY 672	MAX MIN	71 56	73 60	69 56	70 55	76 57	74 59	76 59	65 60	74 61	64 57	73 52	76 55	72 57	74 60	74 56	73 59	74 55	74 58	78 62	74 61	73 58	72 60	71 59	69 58	68 54	74 55	76 62	72 59	74 57	72 57	72.4 57.9		
ISLAND OF MAUI																																		
HOLEKALA R S 338	MAX MIN	57 38	57 36	60 38	62 41	66 40	65 42	66 43	62 45	59 42	63 39	63 45	64 38	56 40	63 41	65 45	62 48	64 44	67 42	62 41	60 39	60 39	62 42	62 45	58 32	55 36	49 39	56 41	51 41	54 40	54 38	60 40	60.3 40.9	
HANA AIRPORT 355	MAX MIN	75 59	76 62	77 64	78 59	79 60	77 60	79 62	83 58	77 60	83 66	73 60	74 60	70 62	70 64	72 65	72 64	78 66	77 66	77 66	77 66	66 65	65 65	63 67	67 67	68 68	67 67	77 67	78 67	78 67	77 67	75.9 64.2		
KAAHAPALI AP 453.1	MAX MIN	80 60	79 60	81 60	81 60	81 64	82 63	82 67	82 65	77 66	78 60	80 60	81 62	79 64	83 62	83 61	83 61	82 65	83 62	81 62	82 65	79 61	82 59	79 61	81 65	79 61	78 66	78 65	80 64	79 65	80.2 62.6			
KAHULUI WSO 398 AP	MAX MIN	81 60	80 61	79 58	80 58	81 59	84 67	81 69	80 67	77 67	79 65	81 57	81 57	80 58	81 60	82 67	84 60	83 57	83 62	81 65	83 68	80 65	81 63	80 58	80 56	83 56	78 56	81 69	81 64	79 59	81 59	80.8 61.9		
KAILUA 446	MAX MIN	72 65	74 62	74 62	74 57	76 57	75 59	76 60	76 64	71 63	68 64	71 66	74 62	76 64	74 67	74 67	74 65	73 62	73 62	74 63	73 63	74 63	73 63	72 65	74 61	73 61	74 58	72 58	74 64	72 61	74.0 62.7			
KEAWAKAPU BEACH 260.2	MAX MIN	82 59	81 59	83 59	83 59	81 59	82 59	81 63	83 65	82 64	78 58	80 60	81 58	82 58	85 58	83 60	82 57	85 62	83 62	88 62	87 65	85 59	83 54	83 54	82 56	82 56	79 56	81 61	80 60	83 58	82.5 60.5			
KULA SANATORIUM 267	MAX MIN	67 52	67 51	66 51	68 52	69 52	70 53	71 53	68 52	67 52	67 49	68 49	68 49	69 49	70 51	67 50	71 51	70 51	70 52	69 53	69 52	69 49	69 49	68 52	70 50	70 50	66 52	65 53	67 52	67 50	68.3 51.0			
LAHAINA 361	MAX MIN	80 61	79 61	80 62	81 61	85 61	83 62	82 63	82 62	82 62	81 61	84 62	83 61	82 61	83 61	83 61	84 64	83 62	83 61	83 64	83 66	83 65	83 63	82 61	82 62	82 60	81 61	82 63	79 65	80 65	80 64	81.9 62.4		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MARCH 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
UH AGRI RES CNTR 324.5	MAX MIN	68 52	64 52	68 53	69 51	67 50	69 52	71 53	68 55	70 52	69 50	68 50	68 51	65 50	65 53	67 50	67 51	70 51	70 54	70 55	70 52	69 52	69 50	69 49	67 49	66 50	69 52	66 52	66 56	65 55	67 51	66 51	67.8 51.7
ISLAND OF HAWAII																																	
HAWAII VOLCONS NP HQ 54	MAX MIN	63 52	64 53	61 50	67 47	68 41	72 51	70 48	68 51	61 51	61 52	62 47	65 45	65 50	61 53	63 50	69 53	70 54	67 52	65 48	63 46	65 45	68 48	66 45	68 48	66 52	68 47	68 52	73 47	69 53	69 49	66.0 49.5	
HILO WSD AP 87	MAX MIN	79 65	77 66	78 63	82 61	82 58	81 64	83 60	81 64	72 67	80 62	81 60	82 63	77 62	78 64	75 64	79 65	83 64	84 65	80 66	77 65	76 64	80 63	79 62	77 58	81 59	82 58	87 62	83 63	79 66	80 63	79.9 63.0	
KAIHALUO 73.2	MAX MIN	74 62	75 59	76 59	75 62	76 58	76 60	79 59	75 58	76 62	79 60	78 59	76 57	77 59	75 60	76 59	75 58	76 61	77 63	80 61	75 59	78 58	76 57	75 56	74 56	75 58	77 60	78 62	80 59	79 55	77 58	76.5 59.2	
KAMUELA 192.2	MAX MIN	69 56	72 48	72 51	75 47	76 45	75 47	74 47	78 52	74 58	63 57	66 53	72 44	72 47	69 57	66 54	74 58	77 49	77 49	75 49	70 58	67 56	69 53	63 55	66 52	72 42	72 43	71 49	73 59	70 58	69 45	71.3 51.3	
KAPOHO BEACH 93.11	MAX MIN	81 66	80 65	81 64	81 61	83 57	84 62	85 64	85 67	83 66	73 67	79 69	83 68	85 70	82 65	81 65	79 64	81 66	85 66	82 67	81 65	82 65	80 63	83 64	80 66	81 60	83 62	83 66	87 69	87 66	81 67	81 64	81.8 65.0
KULANI CAMP 79	MAX MIN	58 45	61 45	58 42	67 37	67 37	68 45	69 49	66 48	60 47	60 47	67 44	61 42	69 44	56 42	50 42	59 45	55 47	65 45	64 46	60 44	60 42	58 42	56 44	62 42	62 44	65 39	70 43	65 42	65 44	65 44	62.0 43.8	
MAUNA KEA OBS 111.2	MAX MIN	40 25	38 23	38 24	44 30	46 32	40 27	49 29	34 24	40 21	40 25	37 24	39 26	40 28	45 27	37 27	38 27	37 25	39 27	36 26	34 25	36 25	37 25	35 24	36 25	36 19	31 19	36 19	39 25	39 20	34 30	36 30	38.3 25.5
MAUNA LOA SLOPE OBS	MAX MIN	43 28	46 27	48 29	53 32	52 33	52 31	53 32	53 32	48 30	50 28	49 30	48 29	52 32	49 34	55 34	52 32	45 34	45 32	47 28	42 27	44 27	47 29	47 27	48 30	50 31	47 30	48 32	47 32	49 33	52 34	51 35	49.0 30.8
MOUNTAIN VIEW 91	MAX MIN	68 59	71 60	65 60	74 60	77 56	78 56	76 56	78 57	76 58	65 60	71 56	74 56	74 58	72 59	71 59	72 59	78 59	73 60	68 61	67 59	70 60	72 61	72 59	75 55	73 53	77 54	75 60	78 60	74 60	70 58	72.8 57.9	
NAALEHU 14	MAX MIN	74 61	75 61	71 58	74 59	76 58	76 60	76 61	78 62	75 61	73 62	72 60	76 60	76 62	76 63	76 62	73 62	74 63	74 63	78 63	75 64	74 62	71 60	75 60	72 53	72 57	77 53	84 55	80 59	87 57	89 60	74 59	76.0 60.0
ONKALA 223	MAX MIN	76 64	71 63	78 64	75 61	77 62	77 61	77 64	78 62	74 57	70 61	74 64	76 61	77 65	75 64	75 65	75 64	74 63	78 62	74 63	75 64	75 64	76 63	75 63	76 61	74 60	75 62	77 64	81 64	80 66	80 64	75 64	75.9 62.8
OPITHALE 2 24.1	MAX MIN	74 56	77 56	76 59	77 57	78 55	79 57	75 57	74 59	80 58	77 57	78 54	78 57	75 57	79 56	76 56	80 56	80 58	78 58	78 58	77 56	78 56	76 56	77 53	79 52	76 55	79 55	84 58	81 57	81 54	80 55	80 57	78.0 56.3
PUUKOHOLA HEIAU 98.1	MAX MIN	84 66	83 63	82 64	84 65	82 63	83 66	83 66	84 66	88 71	88 69	88 64	84 66	84 66	85 60	84 62	84 56	84 56	87 56	87 56	86 56	86 56	86 64	86 66	87 63	87 62	84 62	84 69	85 70	85 64	83 65	84.9 64.1	
SOUTH KONA 2.31	MAX MIN	68 55	64 58	66 56	72 54	73 53	73 57	75 56	72 55	69 53	72 59	70 55	73 56	75 57	67 56	70 56	71 53	69 56	74 56	79 58	69 55	73 55	67 55	64 55	64 50	71 50	72 52	76 54	68 60	76 61	78 53	69 52	70.9 55.4
UPOLU POINT USCG 159.2	MAX MIN	78 66	76 64	79 63	79 62	80 56	73 65	80 66	75 63	77 65	70 64	73 65	78 66	74 66	76 64	77 66	79 66	79 66	78 66	80 66	78 65	78 66	79 63	77 66	69 63	77 64	78 64	73 66	81 65	79 70	79 66	80 65	77.2 65.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MARCH
1979

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	90 79	90 79	90 79		90 77	90 79	90 71	90 77	89 77	90 77	90 77	90 77	90 77	90 79	90 79	90 77	89 76	89 77	90 78	90 77	88 77	88 76		89 77	89 78	90 80	90 79	90 79	90 79	89.7 77.6			
JOHNSTON IS WSO AP	MAX MIN	82 73	81 72	82 73	82 73	81 72	82 74	81 74	80 74	83 75	81 76	82 75	79 73	80 71	79 71	81 71	81 71	82 74	82 75	82 74	82 74	81 74	82 74		82 73	81 73	80 71	80 73	82 70	81 75	81 74	81.2 73.0		
FRENCH FRIGATE SHOALS	MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN	76 69	76 69	73 65	72 62	73 62	70 60	73 58	76 62	78 62	70 65	74 64	73 65	77 67	75 68	71 67	77 70	72 61	68 59	76 64	68 61	72 60	77 63	78 66	71 62	70 60	68 59	75 60	77 65	77 61	70 59	67 59	73.2 63.3	
PAGO PAGO WSO AP	MAX MIN	88 80	89 79	89 78	88 79	88 76	88 75	89 78	89 77	87 75	90 76	90 82	90 82	89 79	90 76	88 74	87 74	87 74	90 75	88 74	90 75	90 76	85 76	88 76		81 75	87 76	88 73	87 75	88 74	88 76	88.2 76.3		
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	82 75	80 75	78 75	79 74	83 75	81 75	78 75	83 77	82 77	81 77	81 76	82 75	82 76	81 76	81 76	82 76	83 76	83 76	81 76	80 77	82 77	81 77	81 77		82 76	82 73	82 75	82 76	83 76	84 77	82 75	81.4 75.8	
CLARK AFB LUZON	MAX MIN	82 70	86 68	88 70	88 72	81 70	86 68	88 70	91 68	93 72	93 73	95 72	95 75	91 73	93 72	91 72	93 72	95 72	91 73	93 75	95 75	97 77	95 77	93 75	91 73	88 75	93 75	93 73	93 72	91 72	97 72	97 73	91.5 72.5	
GUAM NAS	MAX MIN																																	
GUAM WSO	MAX MIN	84 73	84 73	80 73	84 72	84 71	84 65	81 72	84 72	83 72	84 74	85 73	84 72	82 73	82 72	84 72	83 72	85 72	82 72	84 70	84 71	86 72	85 74	85 74		85 68	85 64	86 67	85 75	86 73	86 74	86 71	84.1 71.3	
INARAJAN - NASA	MAX MIN	88 66	85 63	84 72	86 72	85 72	85 74	85 74	85 74	86 74	85 74	87 74	87 74	86 72	84 71	86 71	85 70	87 70	87 70	81 72	85 70	86 71	86 76	84 73		85 73	86 71	85 71	85 71	85 72		87 72	85.4 71.7	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	83 76	83 76	83 76	81 71	83 71	82 75	82 72	83 72	83 73	84 75	84 74	84 75	86 74	83 75	83 75	82 75	81 74	83 73	83 74	84 73	85 75	83 72	85 76		86 76	87 76	87 77	85 76	84 74	86 75	84 75	83.7 74.4	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENEWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINDAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 74	84 73	88 76	87 73	89 76	88 74	88 74	89 77	87 73	87 75	88 75	88 74	87 75	86 75	85 76	87 76	87 75	87 74	89 75	87 75	88 75	88 75		88 75	89 76	87 74	88 75	88 76	89 74	88 75	88 76	87.5 75.0	
KWAJALEIN MISSILE RON	MAX MIN	87 78	87 78	86 75	86 79	87 79	87 79	87 79	88 79	88 78	88 79	87 75	87 77	87 76	87 79	86 75	86 79	87 79	87 79	88 79	88 79	88 78	88 79		88 79	88 78	88 77	88 79	88 77	90 79	88 79	87.4 78.2		
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	88 77	87 78	86 78	86 79	86 76	86 75	87 79	87 75	87 76	88 76	86 77	86 78	88 79	85 75	86 75	86 75	82 74	85 75	86 76	85 78	86 76	86 79		86 76	86 78	87 75	86 76	87 77	87 77	88 79	86 77	86.3 76.8	
METALANIM	MAX MIN	85 72	85 75	85 77	86 76	85 78	84 77	83 77	85 75	85 77	85 73	86 75	81 76	85 75	86 73	85 75	86 73	85 75	86 73	85 71	85 76	85 79	85 76		85 76	85 78	86 75	86 74	86 76	87 74	86 78	86 74	85.2 75.5	
PONAPE WSO	MAX MIN	86 73	87 77	87 77	87 78	88 78	86 77	85 77	88 77	86 75	83 74	86 76	89 77	88 75	89 75	88 75	88 75	80 74	82 74	88 74	86 75	87 78	88 78		89 78	89 79	89 75	89 78	88 77	88 79	88 75	87.0 76.4		
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	87 76	87 79	87 79	87 79	87 79	86 78	86 77	87 77	87 80	87 74	88 75	86 77	86 77	88 76	87 75	85 76	82 78	86 76	88 76	88 73	87 78	88 79		88 76	87 79	87 78	87 79	87 78	87 79	88 76	85 76	87 78	86.5 77.1
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	84 75	85 73	85 74	86 74	87 73	87 74	88 74	86 74	89 74	87 71	87 70	89 74	87 74	88 74	88 76	87 75	88 73	88 74	88 75	88 77	88 74		88 77	88 74	88 73	89 71	89 75	88 73	88 75	90 76	89 74	89 77	87.5 74.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MARCH
1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIMU WSO AP 1020.1	EVAP	.31	.28	.23	.23	.23	.24	.23	.19	.21	.02	.14	.26	.04	.15	.30	.44	.33	.28	.16	.31	.29	.25	.30	.35	.15	.24	.11	.25	.30	.31	.39	7.52
	WIND	124	79	89	67	102	65	88	74	230	242	210	97	131	200	237	247	227	140	80	210	214	185	169	121	89	72	85	161	118	71	101	4325
	MAX	79	80	80	84	83	83	84	79	78	75	77	82	82	82	81	81	81	83	80	79	79	78	81	80	79	77	71	72	72	81	79	79.4
	MIN	59	57	57	57	56	56	56	57	57	58	60	63	61	60	59	59	60	56	57	62	62	60	58	58	55	55	55	54	51	55	55	57.6
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.22	.15	.22	.18	.22	.15	.15	.27	-	.30	.15	.30	.13	.26	.19	.30	.22	.32	.31	.30	.30	.30	.32	.21	.30	.31	.32	.30	.30	.09	7.648	
	WIND	16	15	23	24	18	17	21	23	20	34	24	14	8	29	29	31	34	24	22	33	25	22	22	22	19	22	42	54	40	31	18	776
	MAX	87	85	84	86	89	88	89	87	70	85	86	85	88	82	82	83	87	89	87	89	87	83	86	85	76	81	87	85	84	86	79	84.7
	MIN	59	59	57	60	60	61	60	61	59	58	58	59	61	66	61	61	60	62	61	63	62	60	58	57	55	55	57	63	56	56	61	59.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MARCH 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.28	.24	.30	.27	.29	.33	.30	.37	.47	.26	.46	.29	.21	.25	.31	.23	.33	.32	.28	.36	.33	.32	.32	.32	.29	.27	.36	.37	.40	.38	.30	9.81
	WIND	154	166	149	140	156	194	157	231	227	253	253	212	240	204	215	219	181	138	169	190	177	202	218	178	138	96	213	136	112	138	130	5586
PAGO PAGO WSO AP	EVAP	.29	.33	.29	.30	.27	.23	-	.27	.23	.21	.27	.27	.18	.24	.52	.24	.25	.20	.21	.36	.25	.29	-	-	-	-	.24	.27	.14	.25	8.188	
	WIND	105	142	158	83	129	70	77	83	69	70	143	142	119	113	71	33	38	47	60	57	51	54	72	111	82	83	52	79	70	31	76	2570
	MAX	97	98	96	95	94	92	95	100	100	98	99	98	95	98	94	93	95	93	96	96	99	100	88	98	90	91	90	91	94	100	99	95.5
	MIN	72	72	75	74	72	70	71	75	75	77	75	76	77	78	70	69	70	73	74	74	75	73	70	72	70	71	74	76	72	73	76	73.3
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.31	.23	.06	.20	.22	.20	.20	.21	.30	.25	.28	.27	.20	.18	.21	.21	.24	.27	.18	.24	.32	.30	.22	.33	.31	.30	.30	.30	.30	.34	.28	7.76
	WIND	85	87	113	135	77	66	143	142	134	147	120	98	123	87	84	65	108	181	181	249	234	150	121	154	133	84	106	139	140	212	165	4063
	MAX	82	84	81	86	85	88	85	86	86	85	90	85	85	83	85	85	84	82	78	83	86	90	89	87	87	87	87	87	86	86	85	85.3
	MIN	70	69	69	69	69	64	69	68	66	69	66	71	69	68	66	66	68	69	69	70	67	68	68	68	65	63	66	67	69	67	68	67.7
• • • CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	.23	.13	.20	.23	.15	.30	.30	.16	.30	.15	.24	.24	.37	-	.19	.25	.21	.19	.22	.18	.23	.17	.24	.27	.28	.27	.29	.30	.31	.31	.34	7.498
	WIND	122	92	110	79	52	108	105	113	104	50	31	50	77	86	88	72	87	61	64	75	111	63	39	48	88	83	75	88	111	113	145	2590
	MAX	87	80	85	93	93	94	91	91	97	95	98	93	94	92	94	92	91	92	92	94	94	94	93	97	96	94	93	90	94	95	95	92.7
	MIN	74	73	74	74	75	73	73	74	75	73	73	77	73	74	74	74	73	73	74	75	76	75	77	75	76	73	70	72	74	74	75	74.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MARCH 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU	1	22 11	159 23	560		8A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	5A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILUA	5	21 33	158 00	1274				C	WAILUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	J NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTD

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ISLAND OF OAHU													
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 42	157 59	15					KULIMA HYATT R HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10					KAILUA FIRE STATION
KALIHI RES SITE 777	R	2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEOME MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A	4766	05	WAIKAWA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7		5655	01	KOOLAUPOKO	1	21 24	157 49	240					NATL WEATHER SERVICE
MAKAHA PUMP 800.2		5782	04	OAHU	4	21 29	158 12	400					CAPITAL INVESTMENT CO
MAKAKILO 730.1		5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1		6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM		6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	395					EXP STN H S P A
MOANALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4025					FAA
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A				WAIALUA SUGAR CO INC
PAIKO DR 723.4		7540	02	HONOLULU	2	21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2	21 20	157 46	935		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	3	21 23	157 56	120					PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1	21 35	157 54	20					NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA	1	21 38	158 02	750					JOHN W VOLLRATH
PUU MANAWAHUA 725.6		8500	03	OAHU	3	21 23	158 06	1690		8A			RICHARD FEINER
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1425		7A			R E WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIKAWA DAM 863		8945	05	WAIKAWA	5	21 30	158 03	854					WAIKAWA SUGAR CO INC
WAIKAWA 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIKAWA WATER CO LTD
WAIKAWA KAHALA 715		9185	02	HONOLULU	2	21 16	157 46	10		7A			WAIKAWA COUNTRY CLUB
WAIKAWA 896.3		9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIKAWA LIVESK RES FARM
WAIKAWA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A				WAIKAWA SUGAR CO INC
WAIKAWA 798.2	A	9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIKAWA 836	A	9261	03	EWA	3	21 28	157 56	800		MO			WAIKAWA WATER CO LTD
WAIKAWA 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	750		WI			WAIKAWA WATER CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1		9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	1	21 20	157 43	120					U H WAIMANALO EXP FARM
WAIMANA 892		9593	05	WAIALUA	5	21 38	158 04	330					WAIKAWA SUGAR CO INC
WAIKAWA 750	A	9738	03	EWA	3	21 23	158 01	59		8A			WAIKAWA WATER CO LTD
WILHELMINA RISE 721	R	9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70					MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	825					DEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070					MOLOKAI RANCH CO LTD
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700					CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI													
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A
KAUHALAPAU HARBOR 658		3461	01	LAHAINA	1	20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S D A
MAHANA 694	A	5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S D A
MALAEUA 676	A	6012	01	LAHAINA	1	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAWA 685	A	9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AJWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMALE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120				C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310					KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A		C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W H GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		6A			DAVIES HAMAKUA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	BA	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	A 1487	02	HAWAII	2	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MID	MID			HAWAII WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 54	14		WI			UNITED 2 28/79
HONAUNAU 27	1665	04	S KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	110					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 46	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	613		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		7A			HUEHUE RANCH
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		BA			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	1241					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA	4	19 37	155 55	500		BA			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 57	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 54	10		8A			FLOYD W MC LUT
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U	3	19 01	155 40	1375		WI			KAWAHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	1470	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	BA	8A			R E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1181		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 25	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1900					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1405		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1470		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 01	30					FHA
KONA VILLAGE 93.8	4765	01	N KONA	4	19 50	155 53	20		8A			KONA VILLAGE RESORT HTL
KUKAIUA 222	4815	01	HAMAKUA	1	20 07	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 236	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	1170	BA	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 56	1530		7A			KONA EXPERIMENT STATION
MAKAKALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MAUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		MO			KAWAHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	BA	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA	2	19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MARCH 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
POHAKULOA 107	H 8063	02	HAMAKUA	2	19 45	155 32	6511				C	STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
POKOHOLA BEACH 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
POU LEHA 73	H 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKAKA-BOISE CAS 95.6	9142	04	HAWAII	5	19 56	155 48	900		8A			
CLOSED STATIONS												
ISLAND OF HAWAII												
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		WI			CLOSED 2/28/79
NEW STATIONS												
ISLAND OF HAWAII												
KAILUA HEIGHTS 68.15	2686	04	KONA	4	19 37	155 58	500		8A			PHILO L GILLARD

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MARCH 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	3A	4H			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 00N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	5P		NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		14 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	524	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		14 02N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	6		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	509		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	5	MID	MID			RAPHAEL B LINGESOH
KAPINGAMARRANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	34	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 58N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		9 20N	153 44E	9	MID	MID			ANTER EKI
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID			NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		3 49N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- † DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

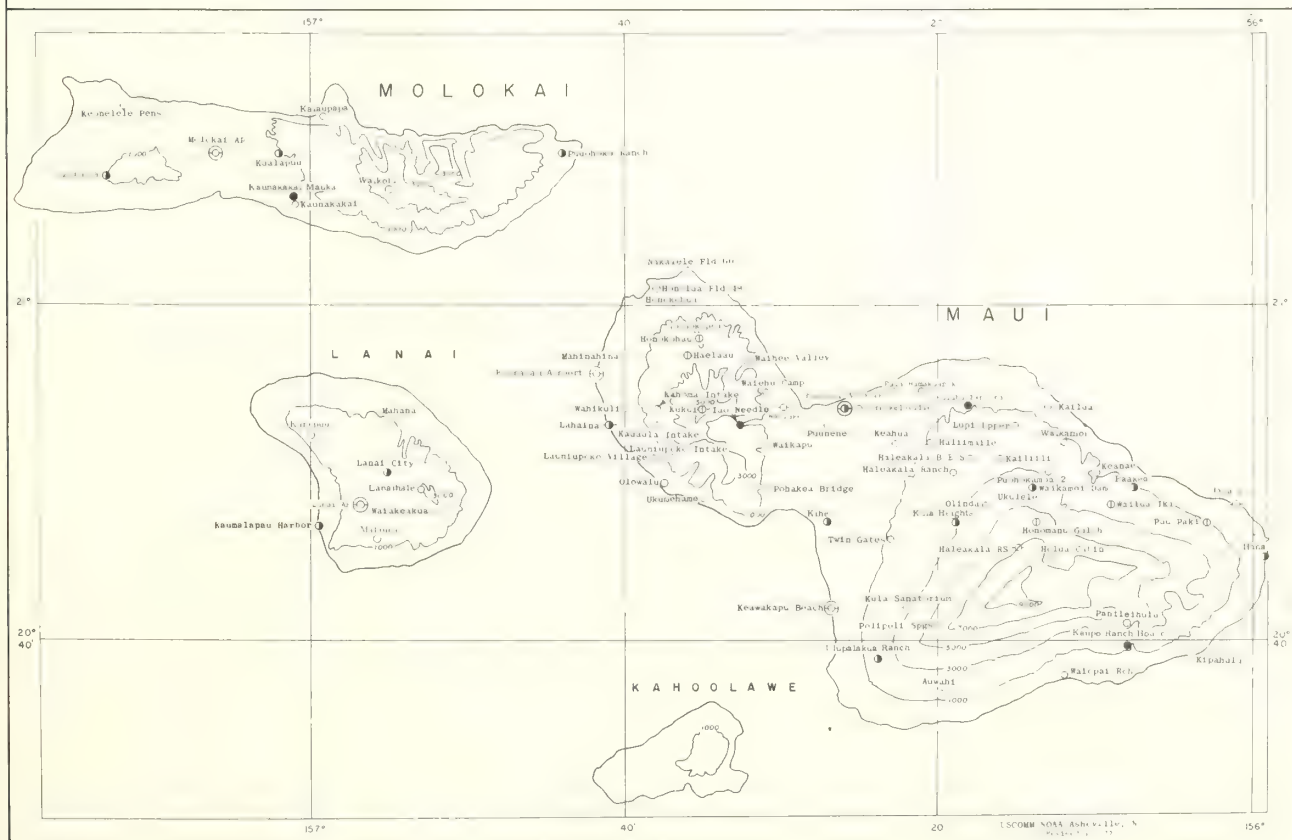
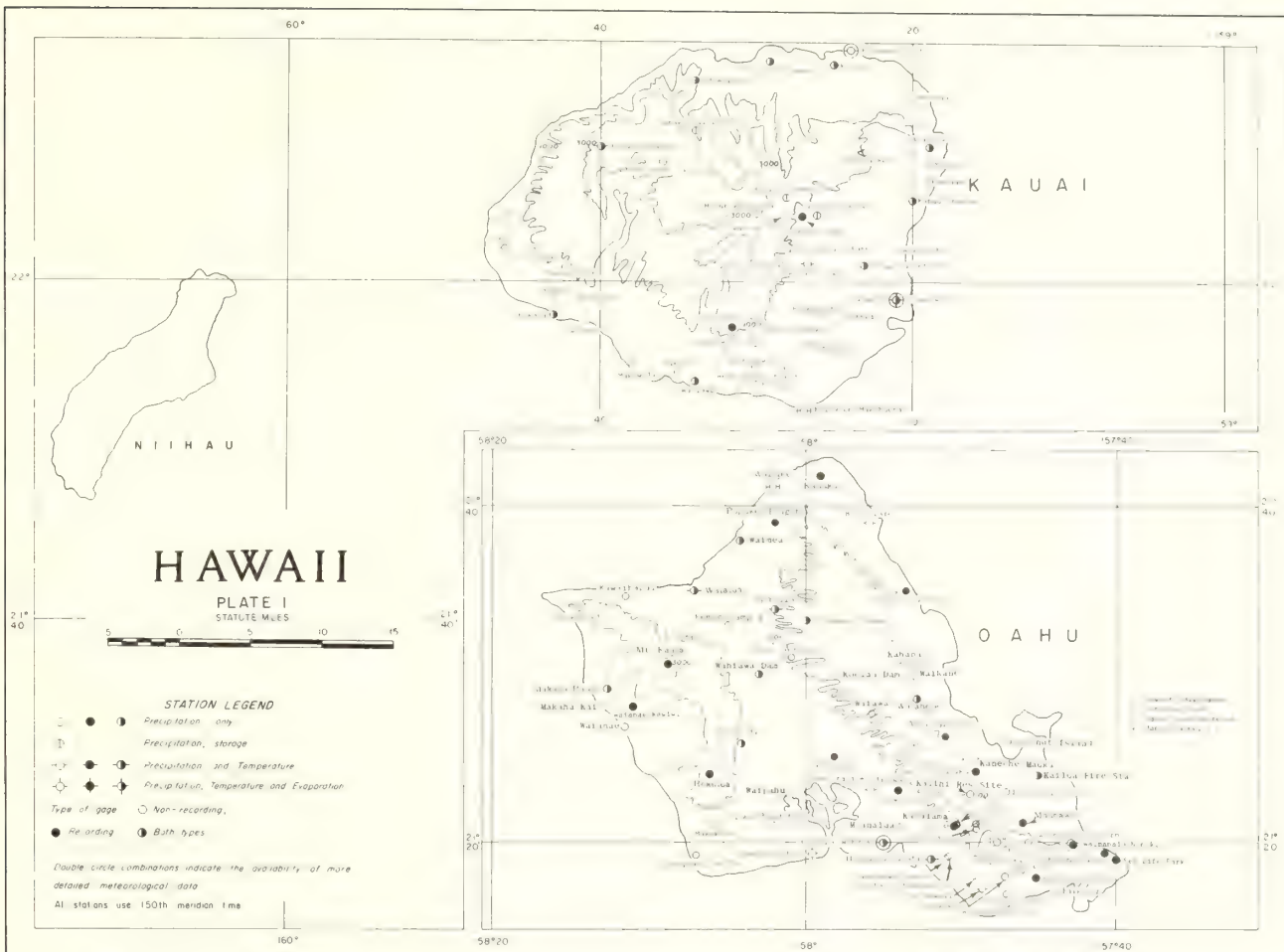
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

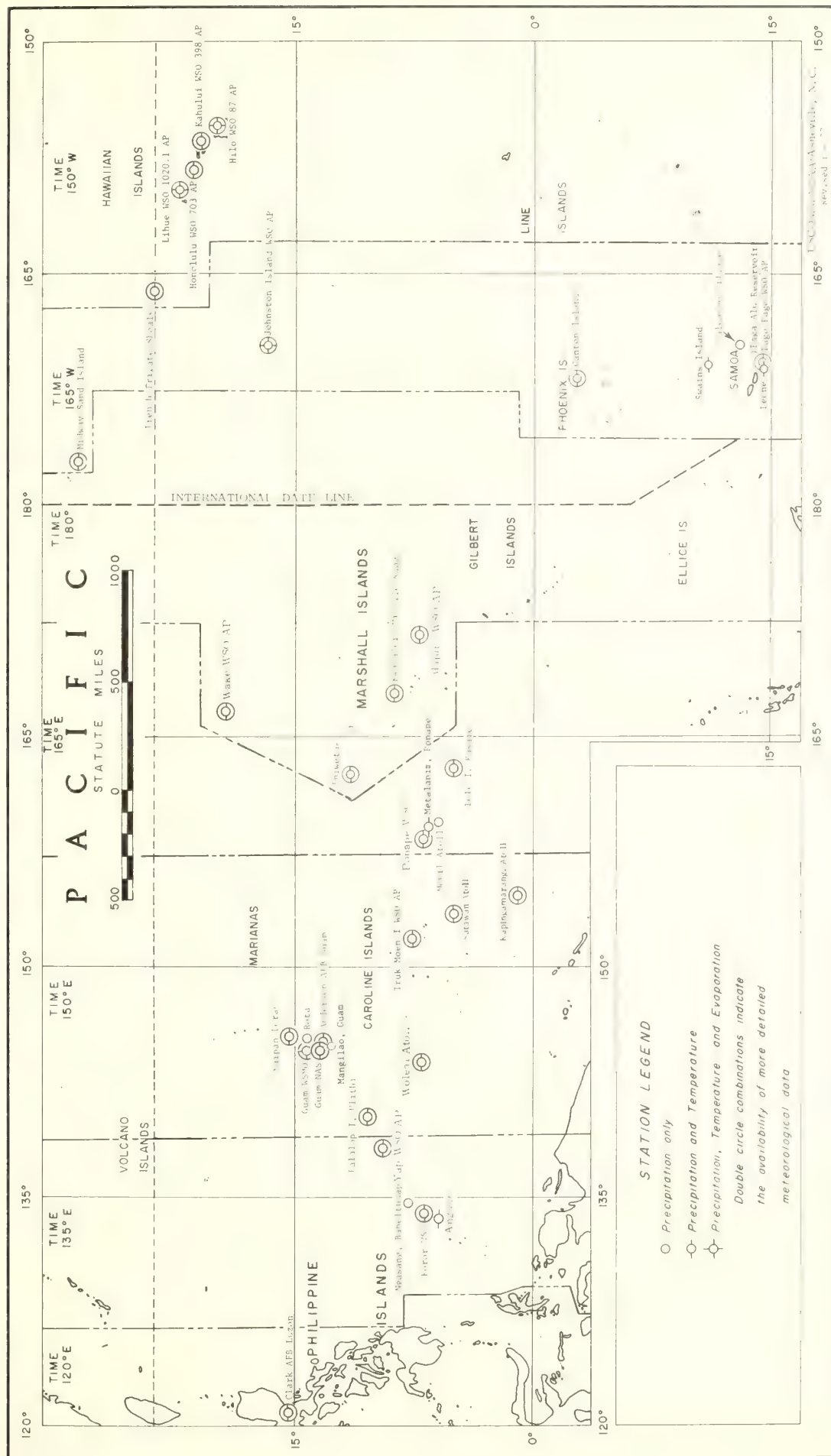
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

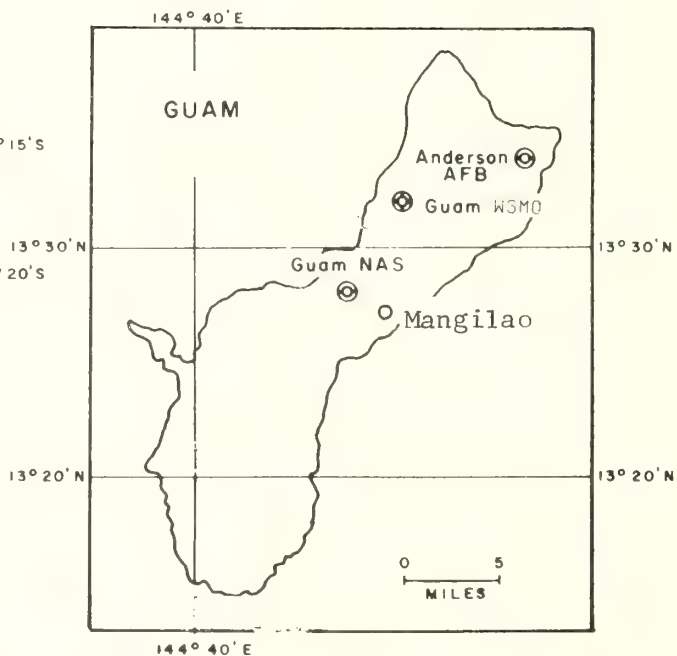
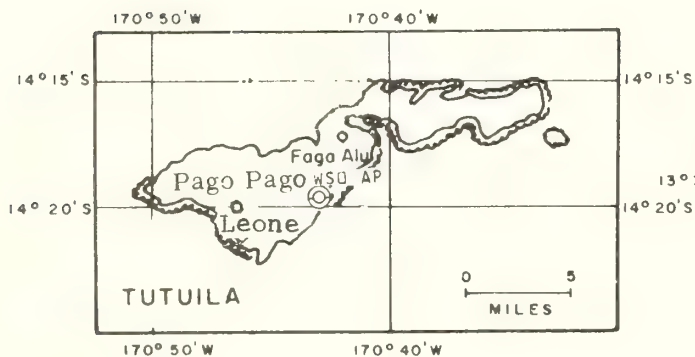
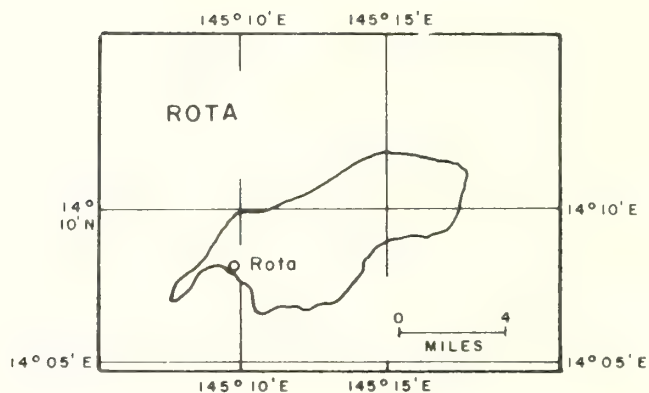
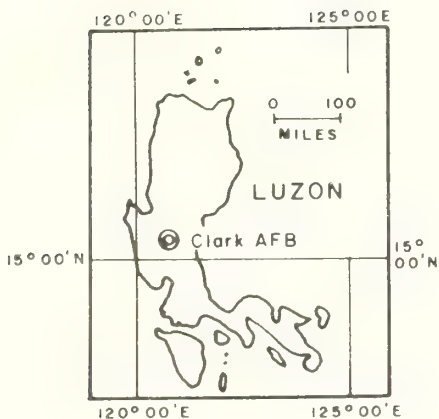
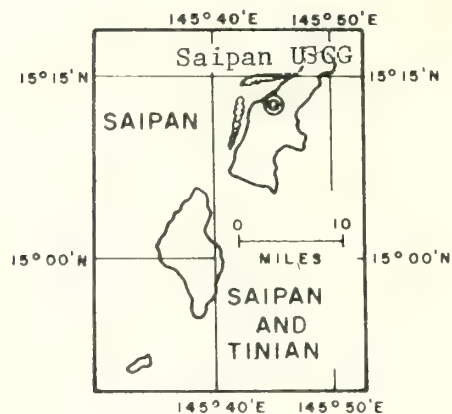
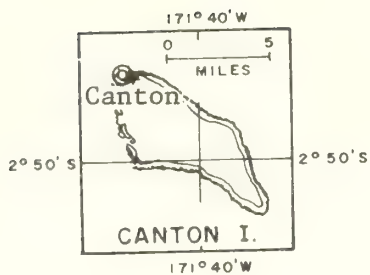
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. All other Publications

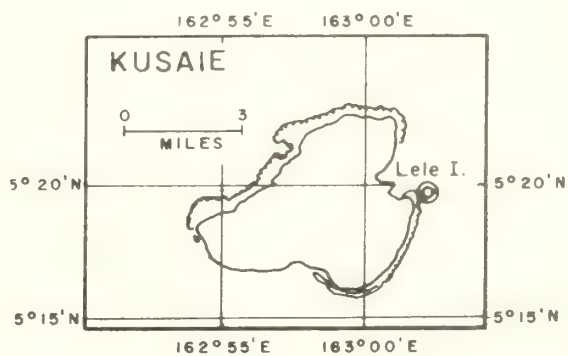
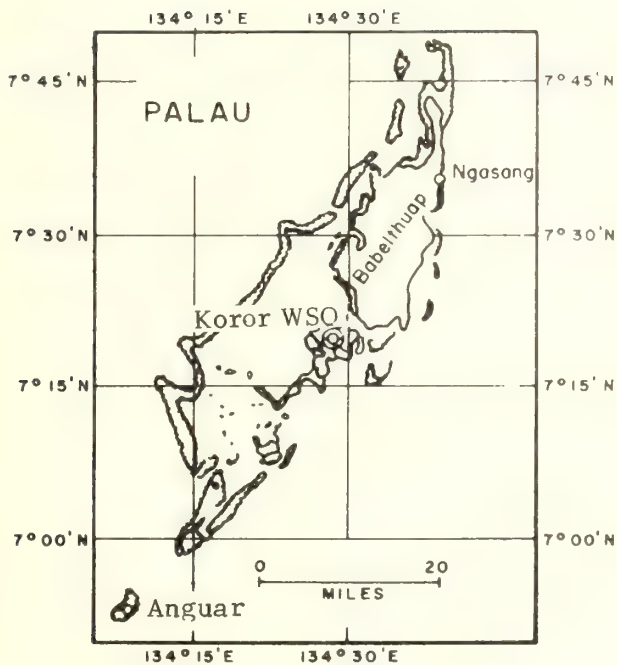
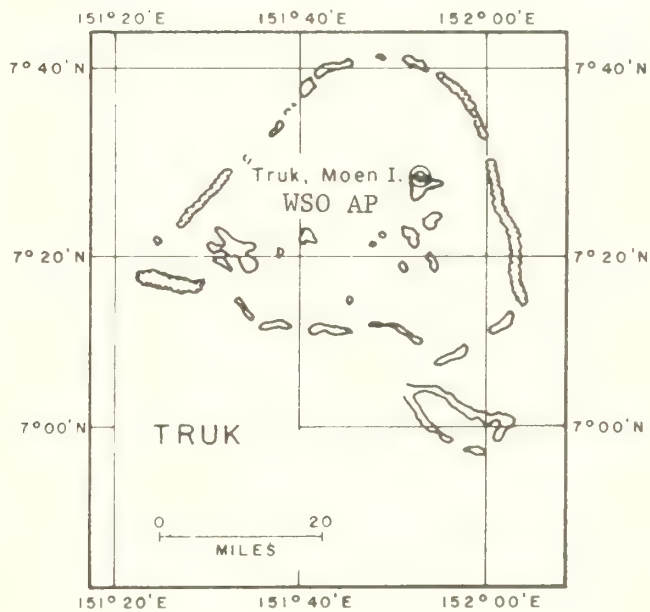
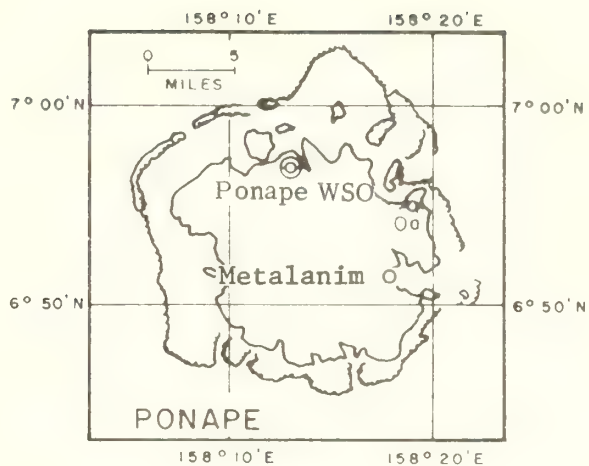
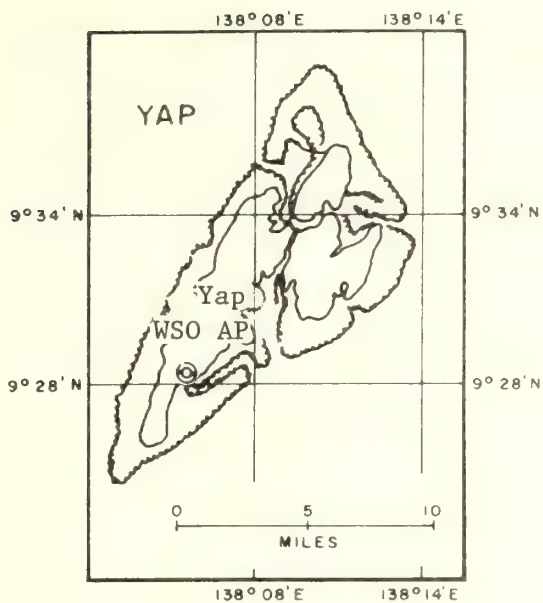
USCOMM-NOAA-ASHEVILLE, N.C. 1979-930



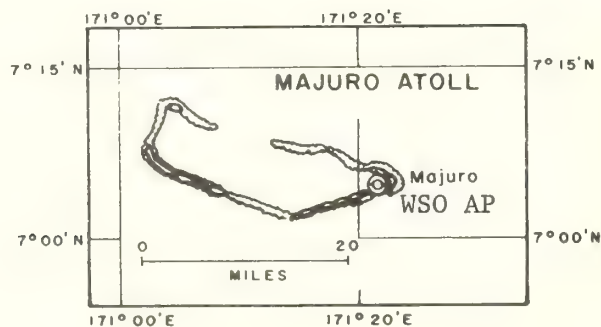
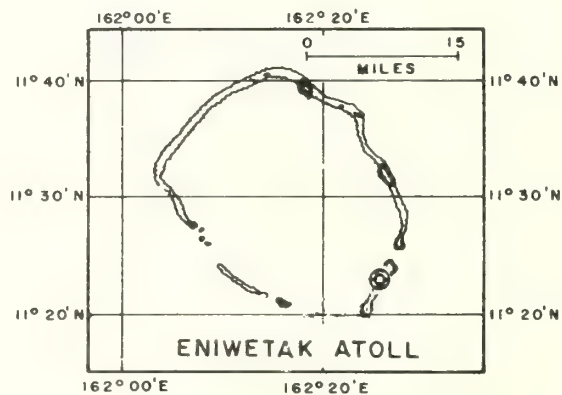
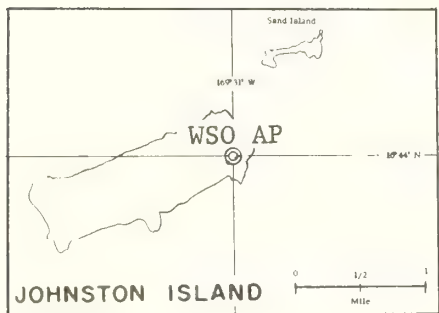
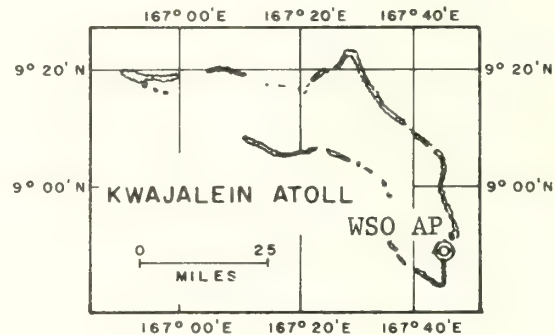
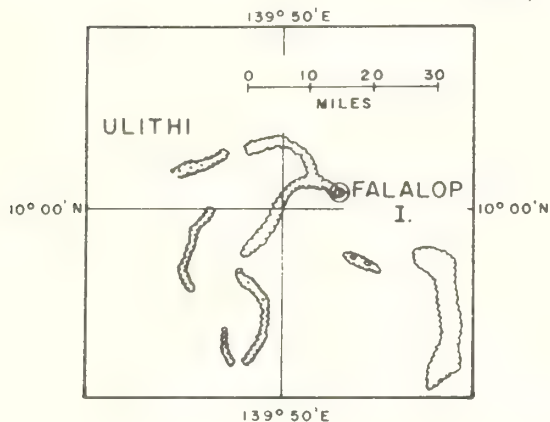
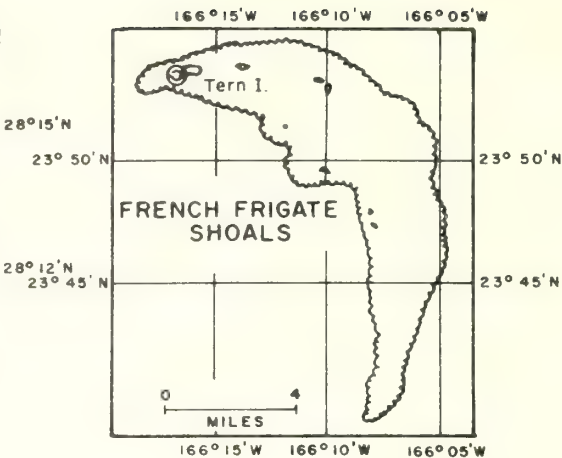
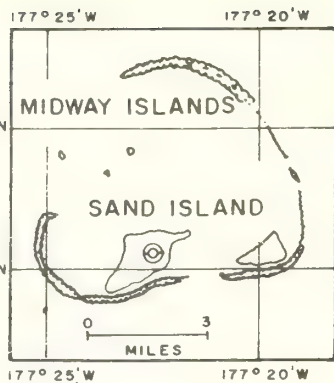
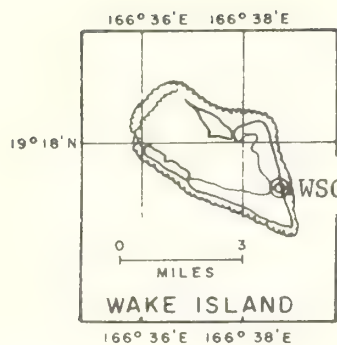




Reef



— Reef



U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE
210



THIRD CLASS
BULK RATE

Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	POUKOHOLA HEIAL 98.1	HAWAII	89	DATE	30+
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	18	DATE	15
GREATEST TOTAL PRECIPITATION:	KAPAPALA RANCH 36	HAWAII	23.41		
LEAST TOTAL PRECIPITATION:	HOLUA CABIN 259.5	MAUI	.12		
GREATEST 1 DAY PRECIPITATION:	KAPAPALA RANCH 36	HAWAII	9.24	DATE	16

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)					RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SHY - OVER SUNRISE TO SUNSET		
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST M.P.H.	DIRECTION OF FASTEST M.P.H.	DATE OF FASTEST M.P.H.	STANDARD OF TIME				TRACE	.01	.05	.10	.25	.50	1.00			2.00 AND OVER	TOTAL
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO				24	E	07+	-	73	70	84	0	14	6	0	0	0	0	20	62	7.6	
HILO WSO 87 AP	13	1.6	6.4	25	SE	16	87	83	68	83	2	12	9	6	0	1	30	31	8.3		
HONOLULU WSO 703 AP	5	4.0	10.1	29	NE	07	81	72	57	71	9	4	3	0	0	0	15	78	5.4		
JOHNSTON WSO AP	7	15.1	16.5	33	NE	28	80	79	71	76	4	8	4	0	0	0	16	78	6.4		
KAHULUI WSO 398 AP	5	6.3	10.4	33	SE	08		81	67	80	2	8	4	2	0	0	16	59	5.6		
KOROR WSO	6	5.4	8.4	35	N	13	86	-	76	75	0	9	5	1	1	4	20	67	7.6		
KWAJALEIN MISSILE RGN	6	16.6	17.5	28++	7	26+	83	84	75	78	3	10	8	3	1	2	27		9.2		
LIHUE WSO 1020.1 AP	6	5.1	10.5	21	NE	08	84	79	61	77	5	10	4	0	0	0	23	63	5.5		
MAJURO WSO AP	7	12.7	13.4	32	E	06	85	87	81	83	2	10	11	3	3	1	30	36	9.9		
PAGO PAGO WSO AP	12	2.5	7.5	32	S	09	89	92	73	84	4	1	4	4	2	1	16	29	7.3		
PONAPE WSO	-	-	-	19	E	05	86	-	81	80	3	6	8	5	4	3	29	15	9.6		
TRUK MOEN I. WSO AP	5	10.0	11.4	23	NE	15	82	-	76	77	5	9	3	1	3	4	25	42	9.5		
WAKE ISLAND WSO AP	8	13.1	13.7	34	E	05	79	79	64	72	6	12	2	1	0	0	21	78	4.3		
YAP WSO AP	8	8.8	9.4	23	NE	12	82	-	72	70	5	8	0	2	0	1	17	68	7.1		



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
APRIL 1979

STATION	TEMPERATURE										PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS				
										MAX.	MIN.	32° OR ABOVE	32° OR BELOW	32° OR BELOW					64° OR BELOW	TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
HAWAII																									
ISLAND OF KAUAI																									
ANAHOLA 1114	A												2.67										0		
KANALOHULU 1075		66.2	48.7	57.5		70 25	42 2					0 0 0 0	2.62		.55 12					8	1	0	0		
KILAUEA POINT 1133		80.8M	67.6M	74.2M		86 21	64 13+					0 0 0 0	1.48		.30 3					5	0	0	0		
KOLOA 936	A												1.98		.33 12								0		
LIHUE WSO AP 1020.1	//R	80.1	64.9	72.5	- .8	84 11	59 14					0 0 0 0	1.07	- 2.18	.23 11					4	0	0	0		
MANA 1026													.59	- 1.03	.42 12					2	0	0	0		
N WAILUA DITCH 1051	A												6.56		1.22 11								2		
PA WAINIHA 1115													5.66	- 6.92											
PUEHU RIDGE 1040													.77	- 1.82	.24 12					4	0	0	0		
WAIHANA 930	A												1.28	- 1.40	.46 12					5	0	0	0		
WAIHAI LOWER 1054		77.8	57.6	67.7		80 24+	53 29+					0 0 0 0	4.86	- 4.46	.84 20					11	4	0	0		
WAIHAI 947		81.6	61.9	71.8		85 7+	54 6					0 0 0 0	.44	- 1.25	.20 12					1	0	0	0		
ISLAND				68.7									2.50												
ISLAND OF OAHU																									
ALOHA STADIUM HALEWA	M	M	M			87 24+	59 30+					0 0 0 0	.66										0		
B Y U LAIE 903.1		81.2	65.2	73.2		83 13+	60 27+					0 0 0 0	1.17		.40 25					2	0	0	0		
HONOLULU OBSERV 702.2		83.4	62.5	73.0		86 2	56 27					0 0 0 0	.71		.60 17					1	1	0	0		
HONOLULU WSO 703 AP	R	83.0	66.5	74.8	.0	86 8	60 28+					0 0 0 0	.55	- .81	.22 10					3	0	0	0		
KANEHE MAUKA 781		78.7	67.5	73.1	.5	83 21	64 14					0 0 0 0	3.15	- 3.11	.66 13					9	2	0	0		
KOOLAU DAM 833	A												8.46		1.55 5+					12	6	1	1		
MANOA LYON ARBORETUM		78.8	62.6	70.7		83 22	59 29+					0 0 0 0	4.78		1.04 4					12	4	1	1		
NUUANU RES 4 783													3.50	- 5.48	1.06 30					9	2	1	1		
OPAEULA 870	A	78.2	63.1	70.7	2.6	85 23	57 28+					0 0 0 0	3.52	- 8.29	.74 5					10	2	0	0		
PAOLO VALLEY 718	R																								
WAIHOLE 837	A												4.30		.80 10								4		
WAIKALEE 896.3		79.0M	66.6M	72.8M			61 22					0 0 0 0	1.48		.31 10					8	0	0	0		
WAIKALUA 847	A	81.1	61.7	71.4	- .1	87 17	54 29+					0 0 0 0	.75	- 1.57	.44 13					1	0	0	0		
WAIKIKI 717.2		84.4	64.0	74.2		87 24+	56 28					0 0 0 0	1.06		.46 17					3	0	0	0		
WAIMANALO EXP FM 795.1													4.00		2.53 17					5	2	1	1		
WAIPIAHU 750	M												.75		.38 18					2	0	0	0		
ISLAND				72.7									2.59												
ISLAND OF MOLOKAI																									
MOLOKAI AP 524																									
ISLAND																									
ISLAND OF LANAI																									
LANAI CITY 672	A	M	M	M								0 0 0 0	2.30	- .99									0		
ISLAND													2.30												
ISLAND OF MAUI																									
HOLEKALA R S 338		58.9	39.9	49.4	- 2.8	73 10	33 11+					0 0 0 0	3.80	- .23	.97 22					11	2	0	0		
HANA AIRPORT 355		80.6	65.9	73.3		88 19	61 28					0 0 0 0	7.42		2.48 15					11	4	2	2		
HONOKOHUA 493	A												3.46		.95 17+								0		
KANAPALI AP 453.1		81.1	64.1	72.6		83 8+	58 28					0 0 0 0	3.05		1.25 16					7	2	1	1		
KAHULUI WSO 398 AP	R	81.2	65.4	73.3	- .5	84 10+	58 29+					0 0 0 0	2.93	1.68	.94 13					6	2	0	0		
KAILUA 446		75.7	63.9	69.8	.6	79 23+	58 30					0 0 0 0	6.50	- 5.21											
KEANAE 346	A												9.40												
KIPAHULU 258													6.20	- 1.13	.53 7					20	2	0	0		
KULA SANATORIUM 267		70.5	53.6	62.1	.0	76 13	49 26					0 0 0 0	4.03	1.05	1.65 17					9	3	1	1		
LAHAINA 361		82.4	64.1	73.3	.0	86 9	58 28					0 0 0 0	3.53	2.60	1.78 16					4	3	1	1		
PAIA 406													2.80		.08										
WAILUKU 386	A												3.37		.96										
ISLAND				67.7									4.71												
ISLAND OF HAWAII																									
HAWAII VOLCNS NP HQ 54	R	66.5M	52.4M	59.5M	.5	71 12	48 11+					0 0 0 0	16.21	- 6.11	5.20 15										
HILO WSO AP 87		81.6	66.0	73.8	1.6	87 16+	62 7					0 0 0 0	9.90	- 2.98	2.11 25					16	7	1	1		
HUEHUE 92.1	A												9.85		5.04 18					7	4	3	3		
KAINALIU 73.2		77.1	61.3	69.2		80 23+	58 30+					0 0 0 0	9.30	3.41	2.05 5					13	6	5	5		
KAPOHO BEACH 93.11		81.7	67.4	74.6		87 1	64 29+					0 0 0 0	7.29		1.08 16					16	5	1	1		
KEAAU 92													V18.58												
KULIHAELE HIC 199		62.9M	46.3M	54.6M		71 14	40 9					0 0 0 0	3.52	- 4.65	.68 4					10	3	0	0		
KULANI CAMP 79													12.70		1.60 20								9		
PAHALA 21	A												12.55		3.33 15								4		
PUUKOHOLA HEIAU 98.1		85.6M	67.5	76.6M		89 30+	65 28+					0 0 0 0	2.32		.44 15					8	0	0	0		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
APRIL 1979

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.		MIN.							TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
										32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW	32° OR BELOW										
HAWAII SOUTH KONA 2-31 WAIKAKA SCD 88-2 ISLAND	71.6M	57.5M	64.6M 67.6		80	2	52	1		0	0	0	0	10.61 14.35 9.87		4.10 2.98	16 20	.0 .0 .0	0 0		10 24	4 A	3 3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
APRIL 1979

STATION		TEMPERATURE										PRECIPITATION									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS		
									MAX.	MIN.	TOTAL	TOTAL				MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	1.50 OR MORE	1.00 OR MORE	
PACIFIC																					
EAST OF 180TH MERIDIAN																					
ATULU CANTON ISLAND		89.8M	77.3M	83.6M		91 26+	72 7		17	0	0	0	10.53		1.69 27				2	0	0
FALERSAO VILLAGE													.81		.32 5				11	5	0
JOHNSTON IS WSO AP		81.3	73.3	77.3	- .3	83 10	71 29+		0	0	0	0	5.45		.88 26				4	0	0
FRENCH FRIGATE SHOALS													1.07	- 1.46	.28 4						
MIDWAY SAND ISLAND																					
MALAPALU																					
PAGO PAGO WSO AP		86.7	73.4	80.1	- .5	90 18	68 22		1	0	0	0	11.01		5.05 27				8	6	3
													9.53	- 2.73	3.44 9				11	7	3
WESTERN PACIFIC IS. NORTH OF 12 N																					
ROAT																					
ANDERSEN AFB GUAM		82.2	75.4	78.8	- .7	84 24	73 15+		0	0	0	0	2.14		.60 30				7	1	0
CLARK AFB LUZON		93.7	76.2	85.0	1.2	99 26	73 21+		29	0	0	0	1.34	- 2.33	.24 3				5	0	0
DEDEDO													.89	- .64	.60 26				3	1	0
GUAM NAS													3.50		1.20 22				10	2	1
GUAM WSO																					
INARAJAN AG STN		85.1	72.7	78.9	.1	87 23+	69 7		0	0	0	0	1.89	- 2.14	.35 15				6	0	0
INARAJAN NAS													2.35		.40 24				10	0	0
MANGILAO		86.2	73.0	79.6		87 29+	69 30		0	0	0	0	2.95		1.35 28				6	2	1
ROTA													1.32		.23 6				6	0	0
SAIPAN LORAN																					
UMATAO																					
WAKE ISLAND WSO AP		84.9	75.1	80.0	1.7	87 18+	73 16+		0	0	0	0	2.64		.90 6				4	3	0
YIGO													1.48	- .74	.60 30				3	1	0
													2.24		.47 1				7	0	0
CAROLINE AND MARSHALL ISLANDS																					
ENEWETAK																					
FALALOP I JULIHI ATOLL																					
KAPINGAMARANGI ATOLL																					
KOROR WSO		87.2	75.4	81.3	- .6	90 24	69 13		1	0	0	0	27.69	19.00	11.67 13				11	6	5
KWAJALEIN MISSILE RUN		86.0	77.0	81.5	- .3	89 3	73 19		0	0	0	0	12.15	6.24	3.99 19				14	6	3
LELE I KOSRAE																					
MAJURO WSO AP		84.7	74.7	79.7	- 1.4	88 7	72 27+		0	0	0	0	11.75	1.44	2.26 28				18	7	4
METALANIM		85.1	74.1	79.6		89 20	70 18		0	0	0	0	28.20		5.40 18				22	13	9
NGASANG BABELTHUAP																					
PONAPE WSO		86.2	75.0	80.6	- .1	91 20	71 10		1	0	0	0	23.38	3.80	5.78 18				20	12	7
SATAWAN ATOLL																					
TRUK MOEN I WSO AP		86.4	77.2	81.8	.5	89 21	72 8		0	0	0	0	20.32	7.15	4.78 9				11	8	7
WOLEAI ATOLL																					
YAP WSO AP		88.6	74.8	81.7	.0	90 9+	71 17		4	0	0	0	3.98	- 2.00	2.33 15				3	3	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
APRIL 1979SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
APRIL 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
MAUNA 604	A	1.60	x	x	41	x	x	x	x	x	x	x	x	x	x	x	1.19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MAUNA 676	A	2.75	x	x	59	x	x	x	x	x	x	x	x	x	x	x	2.16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MAKALELA 685	A	3.62	x	x	x	x	x	x	x	x	x	x	x	x	x	2.21	x	.86	x	x	x	x	x	x	x	x	x	x	x	x	.55		
ISLAND OF MAUI																																	
ALUANI 252	A	x	x	x	x	x	x	x	x	x	x	x	T	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HALEKALU 477	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HALEKALU EXP FM 434	A	6.08	x	x	02	1.88	03	02	.03	.13	.01	x	x	29	.63	.59	.19	.36	.03	.21	.01	.42	.05	.31	.85	x	x	x	.01	x	x		
HALEKALU RANCH 432	A	4.87	x	x	x	.78	x	x	x	x	x	x	x	x	x	x	1.28	.50	x	.79	x	x	x	.46	.62	.43	x	x	x	x	x		
HALEKALU R 5 338	A	3.80	x	x	x	.20	.02	x	x	T	x	x	x	x	x	30	.54	.23	.47	.18	.03	.02	T	.07	.19	.11	.41	.13	x	T	x		
HALEKALU 423	A	3.84	x	x	02	.46	.17	.01	x	x	x	.11	x	x	x	x	.86	.75	x	.62	x	x	x	.29	.05	.50	x	x	x	x	x	x	
HAKAUPAOKA 485	A	4.68	x	x	04	1.22	.11	.13	.17	.07	.09	.05	T	14	.90	.68	.05	.52	.16	.01	T	.15	.01	T	.02	x	x	x	.06	x	x		
HANA AIRPORT 355	A	7.42	x	x	.29	.04	.05	.25	.04	.02	.07	.09	.19	.10	.04	06	.12	2.48	.67	.26	.02	.98	.02	.47	1.28	.07	.06	.03	.06	.01	x	.05	
HOLIUA CABIN 259.5	A	.12	x	x	x	x	x	.12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.54		
HONOKAUA 480	A	5.54	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HONOKAUA 483	A	3.46	x	x	.08	.10	.20	.10	.12	x	x	.40	x	x	x	.05	x	.95	.95	.06	x	x	x	.20	x	x	x	x	x	2.99	x		
HONOLUA FIELD 40 494	A	2.98	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.60	x		
HONOHANU GULCH 341	A	6.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KAHANAPALI AP 453 1	A	3.05	x	x	x	.31	.01	x	T	x	x	x	.01	.15	.02	.39	1.25	.60	T	x	x	.06	.01	.12	.02	T	.10	x	x	x	5.00	x	
KAHANAPALI INTAKE 374	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KAHANAPALI 450 398 AP	A	2.93	x	x	.02	.02	T	T	x	.01	x	x	.06	94	.68	.48	.01	.27	x	x	.02	.17	.11	.06	.08	x	x	x	x	9.10	x		
KAILIHI 436	A	9.10	x	x	x	.53	.27	.35	x	x	.46	.05	.01	x	x	x	2.18	.34	.53	.42	x	x	.21	.36	.21	x	x	x	x	x	.12	x	
KAILUA 446	A	6.50	x	x	.19	.26	x	x	x	x	.46	x	x	x	x	x	x	x	x	x	3.00	x	x	.72	.08	x	x	x	x	x	x	x	
KAILUA INTAKE 375	A	4.96	x	x	x	.104	x	x	x	x	T	x	.20	x	x	x	.03	.30	.31	.03	.71	.01	.50	T	.23	.01	.21	.08	x	x	x		
KEAHUA 410	A	2.60	x	x	x	.18	T	x	x	T	x	x	x	.03	.30	.31	.03	.71	.01	.50	T	.23	.01	.21	.08	x	x	x	x	x	9.40	x	
KEANAE 346	A	9.40	x	x	x	x	x	x	x	x	x	x	x	.05	.15	.24	.51	1.17	.07	.06	x	.56	.09	.27	.01	x	x	x	x	x	x		
KEANAE BEACH 260 2	A	3.12	x	x	x	x	x	x	x	x	x	x	x	.05	.15	.24	.51	1.17	.07	.06	x	.56	.09	.27	.01	x	x	x	x	x	x		
KIHI 311	A	2.46	x	x	x	x	x	x	x	x	x	x	x	.62	1.00	.11	.62	1.00	.11	.33	x	.38	.01	.01	x	x	x	x	x	x	x		
KIPAHULU 258	A	6.20	.15	x	x	.32	.41	x	.53	x	x	.25	.30	22	.36	.44	.20	.25	x	.52	.16	.33	.25	.16	.12	.46	.42	.35	x	x	x		
KUKUI 380	A	32.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KULA BRANCH 5TH 324.5	A	2.65	x	x	.07	.02	.01	x	x	x	x	.01	x	.28	.50	.14	.63	.16	.23	.06	.47	.04	.03	x	x	x	x	x	x	x	x		
KULA SANATORIUM 267	A	4.03	x	x	.70	x	x	x	x	x	x	x	x	.18	.17	.15	1.85	.12	.18	.07	.55	.18	.08	x	x	x	x	x	x	x	x		
KUHAHA 381	A	3.53	x	x	x	x	x	x	x	x	x	x	x	1.78	.47	.50	x	x	x	.78	x	x	x	5.62	x	x	x	x	x	x	x		
KUHAHA INTAKE 376	A	5.62	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KUHAHA VILLAGE 372	A	3.29	x	x	x	x	x	x	x	x	x	x	x	.96	x	x	1.30	.60	x	.05	x	x	x	x	x	x	x	x	x	x	x		
ISLAND OF OAHU																																	
LUPUI UPPER 442	A	9.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	9.50	x	
MAHINAHINA 466	A	3.42	x	x	x	.85	x	.03	x	x	x	x	.47	x	x	x	.68	.95	x	x	x	.34	x	.10	x	x	x	x	x	x	x		
MAKUPA 475	A	5.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.80	x		
MAKALELE FIELD 60 497	A	3.03	x	x	.10	x	x	x	x	x	.81	x	x	x	x	x	.94	x	x	x	.98	x	x	3.00	x	x	x	x	x	x	.20	x	
MAKALELE 374	A	7.34	x	x	x	.166	x	x	x	x	x	.40	x	x	x	x	x	2.28	x	x	x	x	x	x	x	x	x	x	x	x	x		
ISLAND OF KAUAI																																	
OLAHU 288 1	A	2.57	x	x	.46	x	.202	x	1.21	x	x	1.53	x	.39	x	x	.08	x	1.20	x	x	.40	x	.08	1.45	x	.12	x	x	x	.41	x	
PANAMA 350	A	17.93	x	x	.01	.01	.40	.05	T	.01	.03	.10	x	.39	x	x	.08	.79	.55	.04	.45	.04	T	T	.20	.01	T	.02	x	x	12.85	x	
PANAMA INTAKE 259 2	A	12.85	x	x	x	x	x	x	x	x	x	x	x	.11	.10	.58	.10	1.11	.07	.01	.04	.30	.06	x	x	x	x	x	x	x	x		
PANAMA BRIDGE 307.2	A	2.48	x	x	x	x	x	x	x	x	x	x	x	.10	1.11	.07	.01	.04	.30	.06	x	x	x	x	x	x	x	x	x	x	x		
POLIPOLI SPRINGS 267.2	A	13.12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.12	x	
PUNAHONA 2 343	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUNAHONA 386	A	2.98	x	x	.04	x	x	x	x	x	x	x	x	.10	x	x	1.25	.94	.03	.19	x	.36	.02	.15	x	x	x	x	x	x	x		
SPRACKLEVILLE 400 2	A	3.05	x	x	.15	.04	T	.01	x	x	x	x	x	.12	.89	.48	.01	.53	.03	.05	.03	.30	.02	.05	.31	T	x	x	x	x	.02	x	
TWIN DATS 261.3	A	2.88	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	.10	x	.78	x	x	x	x	x	x	x	x	x	x	x		
ISLAND OF MOLOKAI																																	
UKULELE 333	A	4.87	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.87	x	
UKULELE 301	A	2.61	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.44	1.45	x	.72	x	.05	x	x	x	x	x	x	x	x	x		
ULUPALUKA RANCH 250	A	5.05	x	x	.27	x	x	x	x	x	x	x	x	1.12	x	x	2.08	1.61	.01	.01	.04	.35	.05	x	x	x	x	x	x	x	x		
WAIHOLE 364	A	4.15	x	x	.10	x	x	x	x	x	x	x	x	.03	.55	.73	.02	1.03	.27	.15	x	.21	.05	.10	.46	.03	x	x	x	x	x		
WAIHOLE CAMP 484	A	3.70	x	x	.04	x	x	x	x	x	x	x	x	.03	.55	.73	.02	1.03	.27	.15	x	.21	.05	.10	.46	.03	x	x	x	x	x		
ISLAND OF LANAI																																	

DAILY PRECIPITATION

HAWAII AND PACIFIC
APRIL 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
OKALA 223	12.91	.35	1.03	.09	1.24	.20	.35	1.27	.24	T			11			.05	2	15	.01	.82	.01	.07	.05	.02	.50	.26	.18	.82	.98	.38	.90	.38	.31
OPHIHALE 2 24.1	5.35	.43	.17	.10	.34	.03	.08	.15	.09	.09				.03	T	T	.03	2	.52	.17	T	T	.11	.10	.81	T	.02	.08	T				
ORCHID LAND EST 91.5	14.50	x	x	x	x	x	3.48	x	x	x				x	x	x	x	x	x	x	x	x	6	17	x	x	x	x	x	4.85	x	x	x
PARAHU 217	5.61	.18	.12	.09	.77	.02	.08	.36	.04							.13	1	.25	.18	.01	.05	.01	.01	.22	.27		1.18	.14	.11	.12	.25	.02	
PARUJLO 221	7.27	.23	.26	.06	.92	.02	.12	.26	.12							.09	.59		.02	.15		.28		.43	.22	T	1.40	.32	.26	.56	.57	.39	
PAHALA 21	12.55	x	.94	.10			T						.63	x	.90	3	.33	1.86	.01	1.19	.36	.79	1.45	.21		.11	.16	.30	.11	x	x	.10	
PAHUA 65	V28.00	x	1.15	.28	.58	.52	.35	x	x	.42	.31	.15	.55	x	x	x	4.88	2	.75	.95	.12	.45	x	x	.83	.05	.88	.69	.42	x	x	1.28	
PAPAIKOU 144.1	V15.31	x	1.38	.29	.90	.18	.67	x	x	1.43	.16	.01	.41	x	x	.60	.60	.01	.01	.03	.70	x	x	.39	.02	1.43	.34	.14	x	x	.75		
PAPAIKOU MAUKA 140.1	17.37	x	2.38	.57	1.49	.26	.60	x	x	2.10	.24	.06	1.21	x	x	x	.81	.03	.06	1.38	.85	x	x	.82	.21	.75	.75	.23	x	x	2	.57	
PIIHANUA 88	17.21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	17	.21	
PIKUNOOLA NEIAU 98.1	2.32													.12	.09	.44	.25		.14		.37	.40	.34	.17									
PIU LEHUA 73	4.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.60		
PUUOHUUA-0-HONAHUAL	2.49						.15							.03	.03	1.60					.06	.20	.40										
SOUTH KONA 2 31	10.61		.01	.06	.10	.01					.02			.14	.23	.09	.4	.10	.05	.06	2	.70	.47	1	.48	.87	.23		.01	.14	.04	.03	
UPOLU POINT USCG 159.2	3.48		.02	T	.22	T		T	.01					.24	.72	.04	T	.45			.06	.07	.37	1	1	.75	.05	T					
WAIKAE SCD 88.2	14.35	.66	.77	.41	.95	.38	.20	.93	.30	.18	.17	.04	.24	.04	1	1	.17	.09	.02	.22	.35	.2	.98	.19	.49	.34	.02	.30	.77	.27	1.17	.30	.40
WAIKALOA-BOIS CAS 95.8	3.38			.05									.32	.22	1	.08		.25	.02		.25	.60	x	x	.21		.37	.01					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
APRIL 1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
ATU U	10.53				.06				.15	1.47		.67	.11	x	x	x	x	1.62		.53	.48	.05		.15		1.61	1.19	1.69		.63	.12	
CANTON ISLAND	.81				.32	.02		.02				.07			.02		.16	x	.01	.08		.07		.05	x	.01	.01	.02				
FALLASAO VILLAGE	5.46								.05	T		.07	.18		.65	.29	.72	.16				.01	.21	.11	.75		.44	.88	.07	.82	.04	
JOHNSTON IS WSO AP	1.07				.28		.01	.07	.08			.01	T		T	T	.08		T				.01	.10			.06	.16		.12	.09	
FRENCH FRIGATE SHOALS																																
MIDWAY SAND ISLAND																																
MAUREA	11.01				.02	.71				T	1.83	1.37	.01					.01	T		.17	.05			.60		.08	.11	5.05	.93	.07	
PAGO PAGO WSO AP	9.53				T	.61				.65	3.44	T		.28				.01			.16	.11		.78		.11	1.32	1.14	.92	T	T	
WESTERN PACIFIC ISL. NORTH OF 12 N																																
AGAT	2.14	.24			.14		.40				.02				T		.14	T	.04		.26	.30	.20	.02	.07	T	T	.04	.02	.05	T	.60
ANDERSEN AFB GUAM	1.34	.18		.24	.07	.09	.15							T		.05	.14	T	T	T				.10			T	.60		.05	T	.01
C. ARK AFB WSO	.89								.14									T	T	T				.10				.60				
DEDED	9.50		.81	.01	.16	T	.17	.05	.10	.15	.02					.10	.04	.04	.03		.10	.07	.03	1.20	.03	.10	.02	.03	.03	.03	.02	.16
GUAM WSO	1.89	.08		.17	.03	.20	.20				.08			.02			.35	.03	.03		.05	.05	.24		.03		.01	.04	.05	.06	.06	.10
INARAJAN AG STN	2.35	.03	.02		.25		.21										.38						.15		.23	.40		.10	.18	.13		.27
INARAJAN - NASA	2.95	.25			.50		.20				.10					.17	.03	.07		.01	.04	.08		.04	.01	.03	.01	1.35	.05			
MANJILAG	1.32	.21			.05	.01	.23			.01				.01		.05	.10	.02		.05	.10	.15	.19		.01				.04	.04	.05	
ROTA																																
SARDAN LORAN																																
USMAC	2.64			.01	.03	.71	.90					T	T	T		.75			.01		.01	.02				T	T				.20	
WAKE ISLAND WSO AP	1.48			.01	T	.35	.06	.02	T	.18	.03	T	T		.01	T	.02	.06	T				.01	.01	.07	.02		T				.60
YIGO	2.24	.47	.06		.08	.10	.16	.03	.03	.05						.02	.43		.09		.02	.01		.20	.06	.11	.15	.05	.01	.01	.03	.07
CAROLINE AND MARSHALL ISLANDS																																
CHENE TALK																																
FALALOP I. UJITHI ATOLL																																
KAPINGMANGI ATOLL																																
KOROR WSO	27.69		.02	.01	.87	.07	.01				1.48	7.01					.23	.07		.08	.41	2.12					.24	.50		.05	.01	.48
KWJALEIN MISSILE BGN	12.15		.02	.02	.20	.21	.01	.04	.52	.68	T	10	2.37	.44	.03	.38	.06	.02		3.99	.03	T	T	.02			1.42	.33	.12	.46	.01	.68
E. I. KOSRAE																																
MAJURO WSO AP	11.75	.02	.20	.10	.29	.13	.20	.24	.20	1.52		.04	.62	.83	.02	T	.83	1.76	.08	.05	1.02	.15	.06	.04	.06	.16	.08	.31	.42	2.26	.04	T
METANIN	28.20		.20	.64	T	1.12	.65	.06	.25	4.02	.20	.15	.59	1.39	2.28	.38	.06	.56	5.40	.90	.43	.17		.01	2.85	T	.18	.05	.27	1.08	.24	1.97
NGASANG-BABELTHURAP																																
PORAPE WSO	20.38	.07	3.26	T	.01	.68	.20	.20	.75	3.00	11	.10	1.10	1.86	1.38	.84	.08	T	5.78		.44	.02	.07	.15	T	.09	.40	.73	.59	.10	1.37	
SATAWAN ATOLL																																
TAK MOEN I WSO AP	20.32		.43	T		.01	.04	.04	1.83	4.78	.02	4.25	2.70	.03	.18	1.08	.01	.02	1.19	2.38	.41	T				T		.03				.88
WOLEAI ATOLL																																
YAP WSO AP	3.98	.04	.01	.05	.01	T	T	T			T	.57	.85	.03	.03	2.33		T	.01						T		.05					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
APRIL 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	62 43	68 42	69 53	68 54	68 54	69 53	67 51	66 54	69 50	68 53	66 47	60 55	64 45	64 44	66 47	68 48	69 46	67 43	64 45	67 45	68 46	65 47	61 53	67 50	70 52	63 44	68 49	63 46	56 52	66 50	66.2 48.7	
KILAUEA POINT 1133	MAX MIN	81 68	81 70	82 69	79 68	79 70	80 67	79 69	77 70	79 70	82 67	83 66	77 64	82 64	81 69	79 66		81 67	81 66	82 67	85 67	86 66	82 68	83 68	82 68	80 67	83 69	79 63	79 65	80 69	79 69	80.8 57.6	
KOLOA LN (MAK) 940.1	MAX MIN	85 66	86 69	81 72	81 69	81 70	81 69	80 69	81 68	81 69	82 69	86 74	84 72	80 67	80 66	81 63	82 63	83 67	84 66	85 64	84 65	84 65	84 62	85 64	87 63	85 67	80 65	82 64	83 64	82 65	82 65	82.7 66.6	
LIHUE WSO AP 1020.1	MAX MIN	80 62	79 71	80 72	80 70	79 69	80 70	81 71	80 71	79 70	83 71	84 71	78 66	78 63	81 59	77 61	82 60	82 61	79 62	77 61	82 63	81 63	80 62	82 61	81 68	80 62	80 62	79 62	78 62	80 64	80.1 64.9		
NIU RIDGE 1035	MAX MIN	80 59	78 58	81 61	83 61	81 61	80 59	84 60	84 60	83 59	83 64	83 63	83 62	75 64	78 59	79 60	79 59	81 60	83 61	80 59	80 59	84 61	83 61	82 61	76 60	82 58	81 57	81 58				81.1 62.1	
WAIAMI LOWER 1054	MAX MIN	76 53	78 64	79 65	78 65	77 64	76 65	77 63	78 65	77 64	78 64	79 59	78 59	76 55	77 53	80 54	74 53	80 54	79 54	78 55	78 54	78 55	79 54	80 55	79 53	80 53	79 54	76 54	75 54	79 55	79 53	76 59	77.8 57.6
WAIIMEA 947	MAX MIN	79 62	80 63	84 66	80 62	85 62	83 64	85 59	84 56	83 58	83 62	81 67	82 65	81 59	79 60	80 63	79 64	81 66	82 65	83 65	80 64	80 64	83 62	82 61	84 61	80 64	81 61	79 63	82 62	81 62	81 62	81.6 61.9	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN		84 62	82 65	81 69	80 68	81 68			81 68	82 65	87 65	87 66				87 64	85 66	87 66	87 62	87 62				87 61	85 61	81 60	80 59				85 59	
B Y U LAIE 903.1	MAX MIN	81 64	82 71	82 71	83 70	82 70	81 69	81 70	82 70	82 68	82 66	81 64	81 64	83 66	78 63	82 61	81 63	81 62	80 61	81 60	81 65	82 65	82 64	80 63	81 66	80 64	80 63	80 61	80 61	80 64	82 71	81.2 55.2	
HONOLULU OBSERV 702.2	MAX MIN	80 64	86 63	85 67	85 67	84 66	84 63	85 64	85 69	84 64	85 62	83 65	83 66	84 65	83 63	83 64	83 63	83 64	82 65	85 60	84 60	82 63	82 64	84 58	84 58	82 60	85 57	81 56	81 57	80 60	85 60	83.4 62.6	
HONOLULU WSO 703 AP	MAX MIN	85 65	85 71	85 71	83 70	83 70	84 69	84 70	86 68	84 68	82 67	81 67	83 71	82 68	80 68	82 65	81 67	82 68	85 68	80 66	83 67	83 67	84 67	85 64	84 60	84 60	80 61	81 60	80 60	84 59	85 63	83.0 66.5	
KANEHE MAUKA 781	MAX MIN	77 66	78 68	78 69	77 68	77 66	76 68	77 69	75 64	78 70	77 67	79 67	80 69	78 67	76 64	77 65	80 66	81 68	80 69	79 66	83 68	82 68	78 69	82 68	80 69	79 67	80 67	79 66	79 66	79 67	80 70	78.7 67.5	
MANOA LYON ARBORETUM	MAX MIN	81 62	78 66	78 66	75 65	75 65	76 65	71 64	75 65	79 64	79 62	78 61	82 64	81 65	79 62	79 61	80 65	79 65	79 60	81 60	81 62	81 60	82 63	80 60	80 60	80 61	77 60	79 59	80 59	79 65	78.8 62.6		
OPAEULA 870	MAX MIN	75 60	82 64	82 65	78 64	78 64	75 65	73 62	76 65	75 64	75 65	75 66	75 62	75 60	78 60	77 60	82 67	84 66	84 67	84 67	77 66	78 66	78 62	85 52	78 65	78 63	78 62	75 57	76 57	77 60	77 65	78.2 63.1	
WAIALEE 896.3	MAX MIN	77 67	76 67	78 70	78 67	77 69	77 68	78 67	77 68	79 66	79 66	81 65	81 66	81 66	77 65	78 66	80 65	81 68	81 67	82 65	79 63	81 68	82 61	82 71			79 66	78 64	79 63	78 65	78 70	79.0 66.6	
WAIALUA 847	MAX MIN	79 64	80 65	84 62	82 62	81 60	81 60	82 62	80 64	82 61	82 64	83 65	82 64	81 64	81 64	80 65	82 65	81 62	81 64	82 62	81 64	84 63	81 61	83 64	80 60	81 57	80 56	78 54	76 54	76 58	76 58	81.7 61.7	
WAIKIKI 717.2	MAX MIN	84 64	84 60	85 69	84 68	83 68	83 69	84 68	84 68	84 68	86 63	87 64	85 66	83 68	83 64	86 62	85 67	83 66	84 65	84 61	83 63	85 65	87 61	87 60	87 60	86 61	84 58	84 58	83 56	82 58	85 66	84.4 64.0	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN		74 57	75 63	75 61	76 62	75 62			75 59	76 59	76 59	78 59				78 59	75 61	75 61		78 59	77 60		78 60	75 59	72 59	72 61	75 58			72 59		
ISLAND OF MAUI																																	
HOLEKALA R S 338	MAX MIN	62 41	60 37	58 39	64 42	61 43	61 38	59 38	59 43	67 33	73 36	57 33	60 40	62 39	62 46	62 46	54 44	59 45	53 41	56 40	56 41	56 45	57 47	54 42	55 35	59 40	54 35	55 35	57 37	55 38	60 39	58.9 39.9	
HANA AIRPORT 355	MAX MIN	82 64	82 68	82 69	80 67	81 67	81 68	80 67	80 67	78 68	80 66	79 67	82 65	87 66	80 67	80 68	78 67	81 64	81 67	88 65	82 64	82 65	80 66	78 64	83 65	80 68	76 63	78 64	79 61	79 62	80 66	80.6 65.9	
KAAHAPALI AP 453.1	MAX MIN	81 61	83 63	82 65	80 67	81 67	80 66	82 64	83 67	82 67	82 62	81 64	82 65	82 60	79 65	82 67	80 65	81 65	81 67	81 63	80 63	81 64	80 65	80 65	82 65	80 65	80 60	81 60	82 58	80 60	82 62	81.1 64.1	
KAHULUI WSO 398 AP	MAX MIN	81 63	84 66	82 70	81 68	81 69	81 69	82 69	82 68	83 69	84 71	80 68	83 66	78 69	75 66	82 66	81 66	80 69	81 66	82 66	80 66	82 66	80 66	82 66	81 66	80 66	81 66	81 59	80 58	81 60	82 68	81.2 65.4	
KAILUA 446	MAX MIN	75 61	77 67	75 65	74 65	75 67	74 66	76 64	76 64	76 65	74 65	75 65	76 62	79 64	75 65	69 62	78 66	76 66	77 66	77 65	77 66	79 69	79 63	78 62	75 66	73 61	75 61	76 60	76 61	76 58	75.7 63.9		
KEAWAKAPU BEACH 260.2	MAX MIN	83 61	85 62	85 61	85 61	87 60	80 60	85 61	84 60	84 60	84 61	84 63	80 63	83 65	80 67	81 66	83 66	84 65	80 61	83 65	82 65	82 66	82 64	82 66	83 66	81 66	82 66	82 57				85 60	
KULA BRANCH STN 324.5	MAX MIN	68 54	70 54	70 53	71 55	70 53	69 53	70 52	69 54	67 52	69 54	69 53	69 54	71 55	65 56	65 58	73 57	68 57	68 57	70 55	69 56	69 56	71 58	69 55	69 54	68 54	66 51	67 51	69 52	68 50	68 52	68.6 54.2	
KULA SANATORIUM 267	MAX MIN	67 51	70 52	70 52	71 53	71 51	71 53	70 52	70 53	70 51	73 52	73 57	73 60	76 55	71 56	71 56	72 58	72 58	69 57	71 53	71 56	72 56	73 58	71 52	69 53	70 54	66 49	67 51	69 50	68 50	68 52	70.5 53.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
APRIL 1979

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
LAHAINA 361	MAX MIN	82 63	83 64	85 65	85 66	81 65	82 62	86 63	79 68	84 65	82 62	80 62	73 67	83 64	80 64	82 65	84 67	83 63	79 65	79 63	84 64	82 65	84 69	84 66	82 64	82 64	82 58	85 59	83 65			82.4 64.1	
ISLAND OF HAWAII																																	
HAWAII VOLCONS NP HQ 54	MAX MIN	70 55	67 55	65 50	67 49	65 52	64 52		67 48	64 48	55 50	65 48	71 57	69 57	62 55	62 55	68 52	65 55	69 55		68 55	68 56	65 49	70 54	66 51		68 52		67 49	65 51		66.5 52.4	
HILO WSO AP 87	MAX MIN	84 68	81 68	81 66	81 68	80 66	80 65	82 62	81 65	81 64	87 68	85 67	85 70	84 68	87 65	83 68	86 69	83 68	80 66	82 66	79 64	85 63	81 63	75 65	79 65	74 67	80 66	80 66	80 65			81.6 66.0	
KAIHALUO 73.2	MAX MIN	79 61	78 61	78 62	78 61	78 62	75 59	75 63	74 61	76 62	78 59	79 60	77 61	77 62	74 65	75 64	80 62	78 63	77 60	77 62	77 64	78 61	76 59	77 58	76 61	76 62	78 60	78 59	78 58			77.1 61.3	
KAMUELA 192.2	MAX MIN	73 56	75 60	72 59	72 59	70 58	70 58	70 57	69 49	70 49	72 48	71 48	74 49	75 50	74 59	70 57	76 53	73 57	74 51	74 54	73 55	71 55	73 57	70 48	72 55	71 56			75 51		72.6 54.4		
KAPOHU BEACH 93.11	MAX MIN	87 67	84 69	85 66	82 67	83 66	80 65	82 65	84 67	84 70	83 67	83 70	86 70	79 69	78 70	79 66	78 67	81 72	85 72	83 68	79 67	81 68	80 69	81 66	84 67	83 66	78 64	81 66	77 65	80 64	81 65		81.7 67.4
KONA (KAILUA) 68.3	MAX MIN																																
KULANI CAMP 79	MAX MIN	62 42	60 50	59 43	62 43	61 48	59 46	61 43	60 49	60 40	62 41	56 50	69 46	71 58	70 51	60 48	67 45	68 45	69 44	67 44	65 44	64 47	66 47	65 46	58 48		59 49	63 45	62 50	57 43		62.9 46.3	
MAUNA KEA OBS 111.2	MAX MIN	43 29	42 29	42 26	43 24	41 26	43 27	48 28	45 31	45 33	38 26	37 26	36 26	30 18	35 21	39 21	38 30	38 23	32 24	38 24	32 24	33 23	30 25	35 26	40 30	37 28	40 30	40 30	38 37	43 30		38.8 26.3	
MAUNA LOA SLOPE OBS	MAX MIN	51 32	47 29		47 30	52 30	53 34	57 37	59 36	55 36	58 39	57 41	48 41	48 37	48 32	52 31	52 35	48 35	47 30	50 34	49 35	50 39	49 35	51 32	48 30	52 33	50 31	57 37	55 40		52.0 34.6		
MOUNTAIN VIEW 91	MAX MIN	75 58	75 57	76 61	76 61	75 61	72 60	71 58	72 60	75 57	71 59	72 60	74 59	79 63	77 66	76 63	73 62	73 62	77 63	74 61	75 63	76 62	75 60	76 59	74 59	66 60	71 61	71 61	74 59	74 58		74.2 60.4	
NAALEHU 14	MAX MIN	76 62	79 60	77 62	78 63	75 63	77 61	74 61	73 62	78 61	76 62	77 60	77 60	75 63	73 64	73 63	78 64	76 63	77 63	77 63	73 62	70 61	83 58	86 62	78 60	75 60	76 62	74 56	78 58			76.4 61.3	
OOKALA 223	MAX MIN	78 64	80 66	77 66	78 65	77 66	77 65	76 64	77 63	78 67	77 65	78 63	77 65	81 66	81 70	77 69	82 63	81 64	80 68	78 66	79 65	76 65	76 65	82 64	72 63	71 63	76 64	70 64	77 64	77 65		77.4 65.1	
OPIMIALE 2 24.1	MAX MIN	80 60	81 53	76 57	81 61	74 58	77 59	77 58	77 57	78 55	79 61	80 58	76 63	81 63	80 58	81 58	80 62	79 58	79 58	80 56	80 62	84 58	78 56	80 56	79 60	78 55	81 55	81 55	80 55	81 57		79.2 58.5	
PULUHONUA HAIKU 98.1	MAX MIN	85 65	86 70	88 67	87 70	89 68	87 68	88 69	87 70	88 65	86 56	84 67	86 66	84 71	85 69	81 67	81 68	85 69	84 66	84 67	84 68	82 69	81 69	84 65	88 67	88 65	84 67	89 65	89 66	89 67		85.6 67.5	
SOUTH KONA 2.31	MAX MIN	75 52	80 57	72 59	72 58	72 59	71 57	78 57	69 56	72 56	72 57	74 56	73 56	76 56	66 57	69 58	70 61	74 68	68 57	67 58	66 56	67 60	73 59	75 62	72 54	67 55	66 59	71 74	75 54		71.6 57.5		
WAIKOLA POINT USCG 159.2	MAX MIN	80 67	79 67	80 73	80 65	80 66	79 65	79 64	80 71	80 66	82 65	83 67	83 69	80 68	80 68	81 68	82 71	82 67	82 67	81 69				82 66	81 67	81 65	76 65	78 65	78 66	79 67	79 67		80.3 67.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
APRIL 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	90 77	89 78	90 79	89 74	89 79	89 72	90 78		91 75	90 75	89 81	89 75	90 79	90 75		89 79	90 77	89 77	90 79	90 79	90 80		90 76	91 76	91 77	90 79	90 78	90 79		89.8 77.3		
JOHNSTON IS WSO AP	MAX MIN	82 74	82 75	82 75	81 71	81 76	82 76	81 73	81 74	81 75	83 75	81 72	80 73	82 73	82 71		78 71	82 74	81 74	82 74	82 74	82 71		82 71	81 73	82 73	82 73	78 71	80 71	81 71	82 75	81.3 73.3	
FRENCH FRIGATE SHOALS	MAX MIN																																
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	87 74	89 73	88 73	87 73	84 74	87 74	87 73	88 74	87 72	86 74	87 78	87 73	86 69	85 63		88 70	89 73	90 76	89 78	85 75	85 69		87 68	83 74	87 73	88 76	87 74	87 73	83 74	85 77	87 77	85.7 73.4
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	82 75	81 75	82 76	81 76	82 73	81 73	82 76	83 75	81 75	81 75	82 75	80 75	82 75	83 76	82 73	83 75	81 76	83 76	83 75	80 76		83 76	83 77	84 76	83 75	83 75	83 76	82 76	83 76	83 76	82.2 75.4	
CLARK AFB LUZON	MAX MIN	97 75	97 75	93 75	95 75	93 73	97 77	97 79	95 79	95 77	95 77	95 77	91 77	93 77	90 73	90 73	90 75	86 75	90 73	91 73	93 74	95 77		95 79	93 77	95 77	93 77	99 79	97 79	95 81	91 77	95 77	93.7 76.2
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	84 72	84 72	86 74	84 73	85 71	84 72	84 69	85 74	84 70	84 70	85 73	85 75	85 72	86 73	84 70	85 73	85 72	85 74	85 70	86 76	82 73		87 76	87 73	86 75	86 74	86 74	86 71	86 73	86 74	86 72	85.1 72.7
INARAJAN - NASA	MAX MIN	87 72	86 72	86 73	86 72	86 72	86 72	86 74	86 75	87 74	87 73	87 73	85 74	86 75	86 71		86 74	86 75	86 74	86 74	85 75	85 72		86 72	87 72	86 72	87 73	87 73	86 75	86 72	87 73	86 69	86.2 73.0
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	84 73	85 73	84 75	86 76	85 74	85 75	86 76	86 77	84 73	83 75	85 74	86 75	87 76	87 76	86 74	86 73	86 75	87 75	86 77	84 76	83 75		83 75	82 76	84 74	83 76	84 76	85 76	85 76	84 75	84 75	84.9 75.1
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	87 76	86 77	87 77	82 74	88 77	88 78	89 76	88 76	89 76	87 76	81 74	81 70	79 69	88 77	89 75	89 76	88 75	88 77	86 76	88 74	88 74		88 75	89 75	90 74	89 76	89 76	89 75	89 76	88 76	88 76	87.2 75.4
KWAJALEIN MISSILE RGN	MAX MIN	88 80	88 77	89 79	88 76	87 75	88 79	88 78	87 77	87 76	87 80	88 79	84 76	83 75	84 75	87 78	86 75	86 78	86 79	80 73	86 78	86 77		86 78	84 77	86 77	86 79	84 75	83 76	87 78	86 74	86 75	85.0 77.0
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	87 74	85 75	87 77	85 76	85 75	85 75	88 73	86 75	84 74	87 76	84 73	83 73	82 75	87 74	82 74	84 74	84 76	86 76	82 72	85 75	85 75		85 75	84 76	84 75	85 75	82 76	83 74	85 74	85 75	85 76	84.7 74.7
METALANIM	MAX MIN	85 78	83 72	84 76	85 79	85 73	86 74	85 75	85 75	84 71	83 71	85 75	85 75	84 72	86 74	83 75	85 74	85 75	85 70	84 71	89 73	86 74		86 77	86 74	85 77	86 74	85 75	85 73	88 73	83 74		85.1 74.1
PONAPE WSO	MAX MIN	87 76	81 74	87 77	88 77	88 75	85 76	87 78	85 75	81 73	85 71	86 74	85 73	86 74	85 74	84 75	87 75	88 77	81 72	84 72	91 74	88 74		89 77	88 75	89 78	89 77	89 74	89 75	87 76	88 77	80 75	86.2 75.0
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	87 80	86 77	87 78	87 80	87 78	87 78	86 78	85 72	83 73	88 78	88 74	86 74	84 76	87 77	84 75	86 80	86 77	85 74	83 76	88 76	89 77		88 76	87 79	88 80	87 79	87 80	86 80	87 79	88 90	85 76	86.4 77.2
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 76	89 76	88 77	89 74	90 77	90 77	89 74	90 76	90 76	89 75	84 74	88 74	87 75	88 76	88 75	87 74	88 71	88 75	89 74	88 76	89 72		89 72	89 72	89 72	89 78	89 77	89 75	89 75	89 75	89 75	86.6 74.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
APRIL
1979

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LIMUE WSO AP 1020-1	EVAP	.35	.14	.32	.44	.35	.27	.30	.46	.40	.30	.26	.37	.17	.37	.39	.29	.39	.41	.39	.41	.33	.23	.26	.25	.27	.33	.17	.25	.23	.32	9.42
	WIND	78	145	242	245	252	234	267	315	308	202	95	89	92	94	114	86	104	97	87	83	90	90	86	80	181	135	97	95	115	112	4310
	MAX	81	82	82	81	82	81	82	79	79	79	83	79	82	77	79	77	82	82	79	77	82	81	81	78	82	81	79	79	79	80	80.2
	MIN	55	64	60	55	63	62	62	62	61	60	58	59	58	55	56	56	55	55	56	57	55	56	56	54	55	55	56	55	59	58	57.9
ISLAND OF OAHU																																
HONOLULU OBSERV 702-2	EVAP	.23	.30	.30	.30	.40	.35	.39	.45	.45	.45	.34	.37	.33	.45	.33	.45	.30	.45	.37	.30	.35	.30	.30	.30	.25	.30	.30	.56	.30	.40	10.67
	WIND	21	24	28	37	35	30	32	45	41	26	24	28	34	30	7	50	32	21	32	27	23	28	30	30	23	18	18	22	19	19	834
	MAX	88	90	86	89	88	87	89	90	87	85	89	90	88	88	91	90	91	93	91	89	91	89	89	77	86	88	82	89	80	90	86.0
	MIN	61	61	63	64	67	62	62	63	62	61	62	65	67	65	63	64	66	65	62	62	62	65	61	59	59	59	58	60	60	62	62.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
APRIL 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
■ ■ ■ EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.34	.38	.31	.40	.37	.31	.37	.35	.33	.27	.30	.33	.38	.33	.28	.18	.30	.26	.28	.32	.29	.28	.36	.45	.38	.32	.12	.23	.26	.31	9.39
	WIND	203	194	216	225	231	217	244	269	218	151	157	234	158	126	109	109	108	134	99	87	90	123	119	132	131	140	194	181	225	179	5003
PAGO PAGO WSO AP	EVAP	.23	.21	.20	.18	.02	.21	.23	.22		.10	.18	.34	.12		.24	.27	.23	.20	.10	.14	.17	.18	.02	.16	.23	.08			.12	.24	5.138
	WIND	27	35	31	28	23	35	46	129	126	54	85	87	69	55	24	42	47	31	108	15	35	26	37	30	69	106	80	124	85	95	1784
	MAX	100	101	95	91	87	96	98	94	98	95	92	97	100	96	96	96	97	101	92	90	88	89	90	97	96	90	97	82	87	95	94.1
	MIN	74	73	72	70	69	73	74	76	74	76	77	73	93	71	68	69	69	71	76	74	65	64	69	70	70	69	69	72	71	74	72.2
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.27	.34	.38	.39	.42	.29	.32	.35	.34	.30	.35	.33	.34	.42	.21	.32	.20	.35	.35	.30	.10	.27	.32	.34	.32	.25	.37	.27	.36	.33	9.50
	WIND	163	142	184	201	198	223	222	193	159	189	215	177	149	157	173	153	91	145	185	181	60	146	120	174	163	150	135	114	167	175	4904
	MAX	87	89	87	85	86	85	85	85	84	83	84	85	87	86	84	87	88	85	84	85	80	91	91	86	87	87	86	87	86	86	85.9
	MIN	68	68	67	69	68	69	70	67	68	68	69	68	67	68	68	68	68	68	68	68	70	71	75	72	69	68	69	68	68	69	68.7
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP	.35	.27	.26	.45	.30	.34	.27	.24	.26	.18	.13	.34	.22	.30		.22	.27	.39	.30	.29	.22	.15	.12	.23	.29	.30	.32	.31	.32	.30	8.218
	WIND	110	110	113	144	140	121	99	99	85	86	112	147	143	116	92	84	75	70	106	100	41	50	21	36	79	114	91	99	84	83	2856
	MAX	95	96	94	95	94	93	90	92	92	88	82	93	95	97	89	95	94	97	95	96	96	91	89	97	97	85	95	94	95	96	91.2
	MIN	74	73	75	73	75	74	75	74	73	73	75	75	76	76	75	74	72	75	74	73	74	75	73	75	77	72	73	75	73	75	74.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
APRIL 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENNANO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU	1	22 11	159 23	560		8A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140		7A			OKOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIKALELE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	5A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTD

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10					KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHANA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400					CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	550		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					FAR
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A				WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULOA	1	21 35	157 54	21					NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 38	158 02	750					JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1315		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHANA DAM 863	8945	05	WAIHANA	5	21 31	158 03	854					WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120					U H WAIMANALO EXP FARM
WAIMEA 892	9593	05	WAIALUA	5	21 38	158 04	330					WAIALUA SUGAR CO INC
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070					MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700					CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300		8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S D A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050					MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			CLOSED 3/31/79
HALEAKALA EXP FM 434	0997	01	MAKAWAO	1	20 51	156 18	2100		7A			U H MAUI AG EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMALE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120					CLOSED 3/2/79
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KANAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAKULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A			ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO	2	20 46	156 20	3050	7A	7A			U H MAUI AG RESEARCH C
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR			E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830					BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310					KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A			CLOSED 3/31/79
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320					E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	0150	02	HILO	2	19 44	155 09	1490		8A			MAUNA KEA SUGAR CO
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			CLOSED 3/31/79
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MID	MID		C J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HONAHU 27	1665	04	S KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		7A			HUEHUE RANCH
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIHAWAI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA	4	19 37	155 58	500					PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	1000		8A			FLOYD W MC LUT
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KA'U	3	19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 50	240		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			CLOSED 3/31/79
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	155 01	30	7A				FRA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILU FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KA'U	3	19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAUHILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA	2	19 30	154 57	683					GEORGE SALAZAR
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAPAIOU MAUKA 140.1		7721	02	S HILO	2 19 47	155 08	1285		7A			MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH U S DEPT OF INTERIOR PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO
PIIHONUA 89	A	8051	02	S HILO	2 19 44	155 10	1730		M0			
POHAKULOA 107	A	8063	02	HAMAKUA	2 19 45	155 32	6511				C	
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII	5 20 02	155 50	140	8A	8A			
PUU LEHUA 73	A	8460	04	N KONA	4 19 34	155 49	4880		M0			
PUUHONUA-O-HONAUNAU		8552	04	S KONA	4 19 25	155 55	15		8A			
PUU WAAWAA 94.1		8555	05	N KONA	5 19 47	155 51	2520				C	
SOUTH KONA 2.31		8650	03	HAWAII	3 19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1 20 15	155 53	61	8A	2P			
WAIKEA SCD 88.2		9025	02	S HILO	2 19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8		9142	04	HAWAII	5 19 56	155 48	900		8A			BOISE CASCADES WA CONST
CLOSED STATIONS ISLAND OF MAUI												
HALEAKALA B E S 434	A	0995	01	MAKAWAO	1 20 51	156 18	2100		7A			CLOSED 3/31/79 CLOSED 3/2/79 CLOSED 3/31/79
HANA 354		1122	01	HANA	1 20 45	155 59	120				C	
UH AGRI RES CNTR 324.5		8743	02	MAUI	2 20 46	156 20	3050	12M	7A		C	
ISLAND OF HAWAII												
CITY OF REFUGE 27.4		0344	04	S KONA	4 19 25	155 55	15		9A			CLOSED 3/31/79 CLOSED 3/31/79
KIPA 89.2	A	4632	02	S HILO	2 19 44	155 09	1490		WI			
NEW STATIONS ISLAND OF MAUI												
HALEAKALA EXP FM 434		0997	01	MAKAWAO	1 20 51	156 18	2100		7A			U H MAUI AG EXP STN U H MAUI AG RESEARCH C
KULA BRANCH STN 324.5		5000	02	MAKAWAO	2 20 46	156 20	3050	7A	7A		C	
ISLAND OF HAWAII												
AMAUULU 89.2		0150	02	HILO	2 19 44	155 09	1490		8A			MAUNA KEA SUGAR CO U S DEPT OF INTERIOR
PUUHONUA-O-HONAUNAU		8552	04	S KONA	4 19 25	155 55	15		8A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	* 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10H	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- A Amount included in following measurement, time distribution unknown.
- † Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN
5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

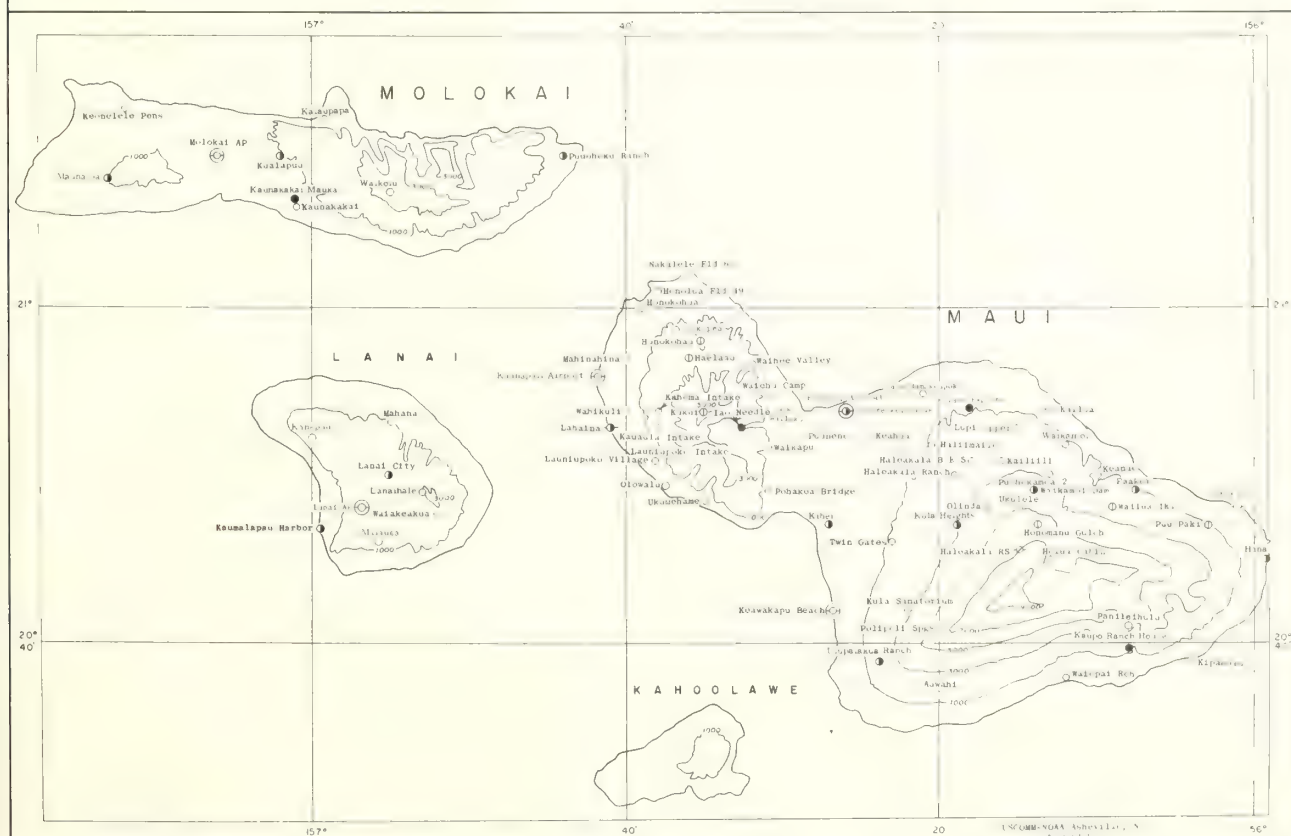
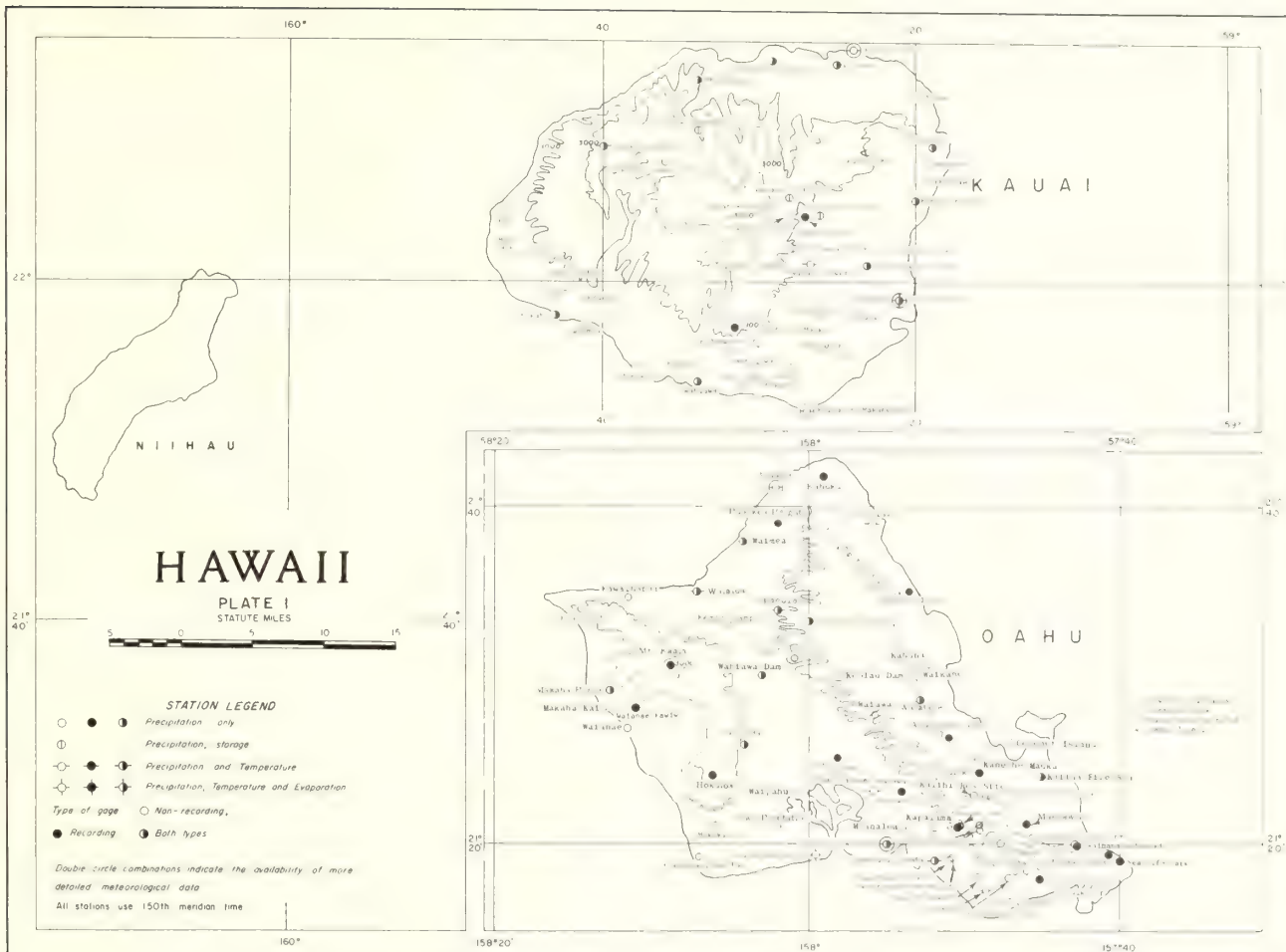
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

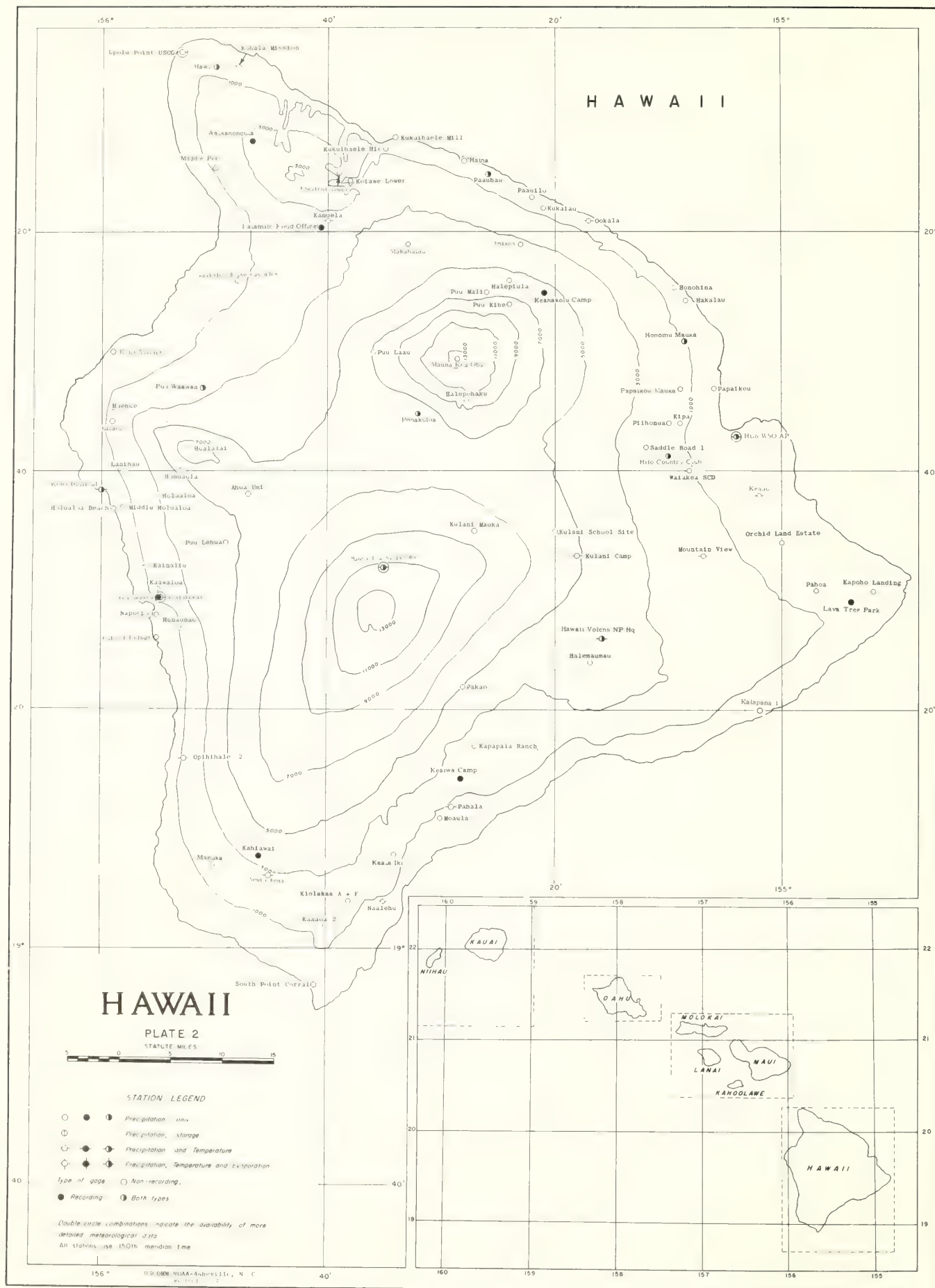
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

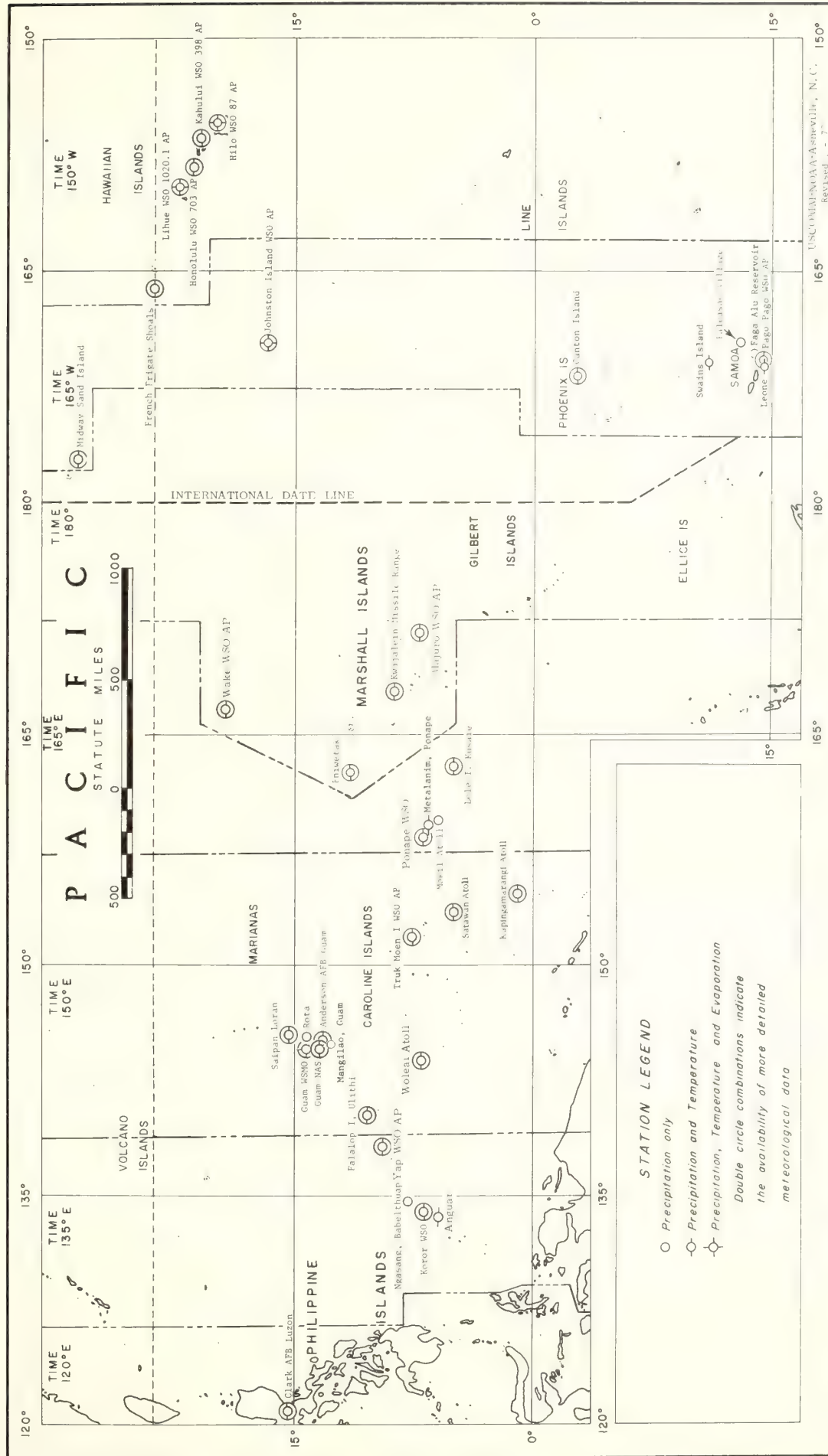
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.

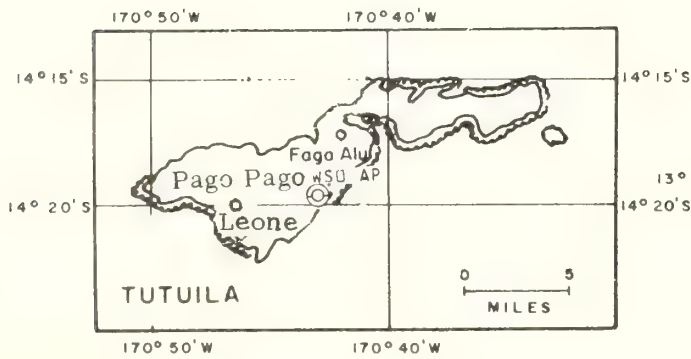
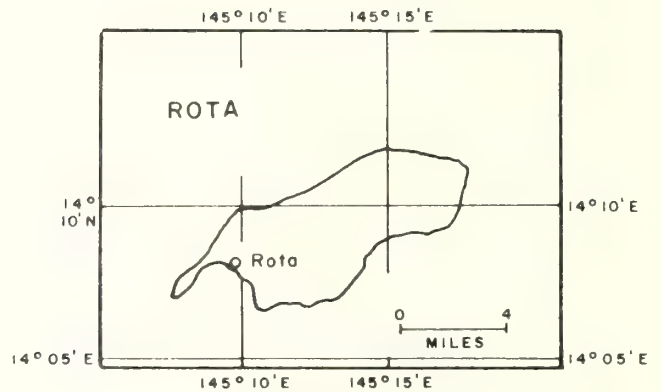
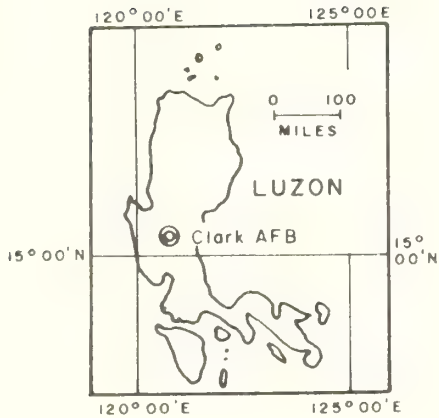
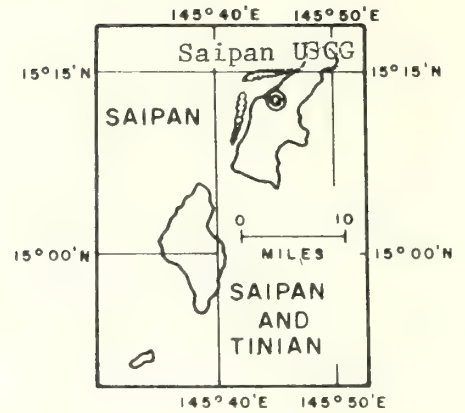
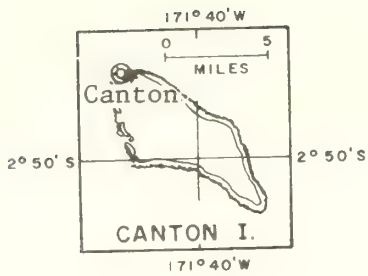
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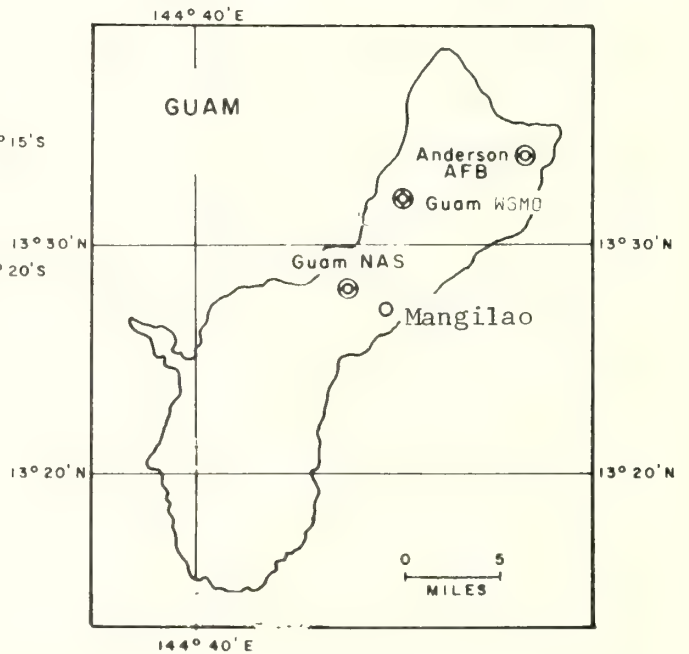


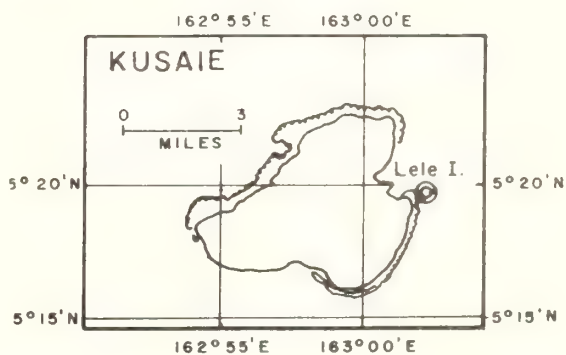
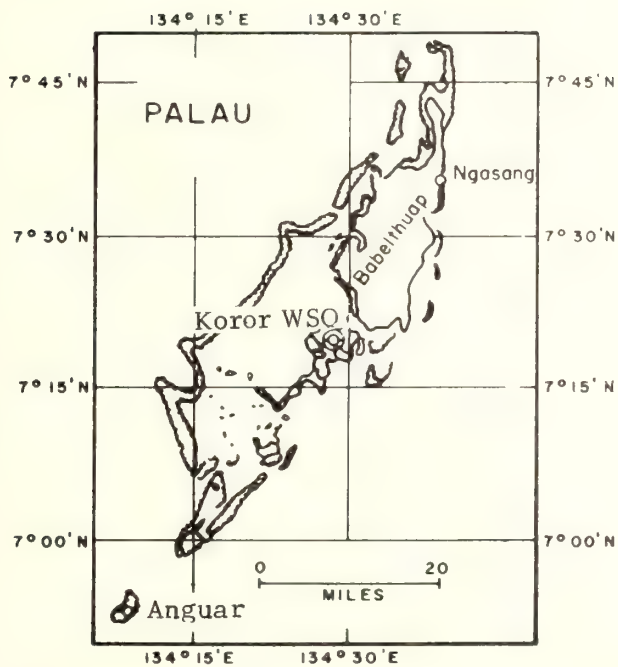
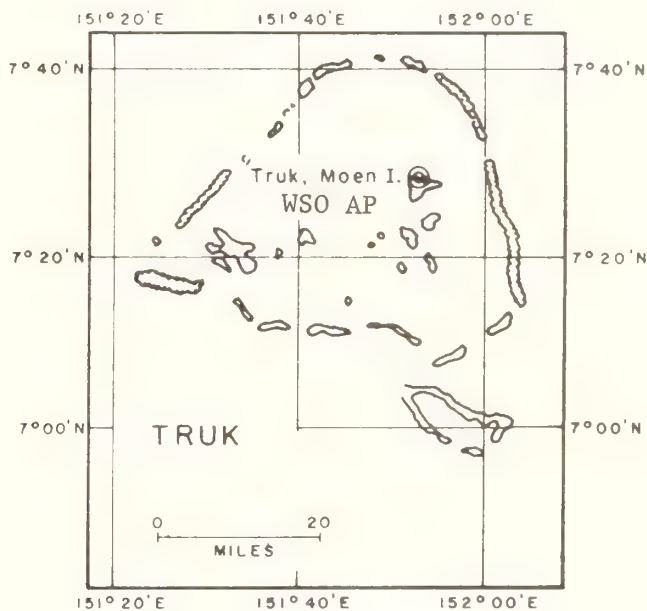
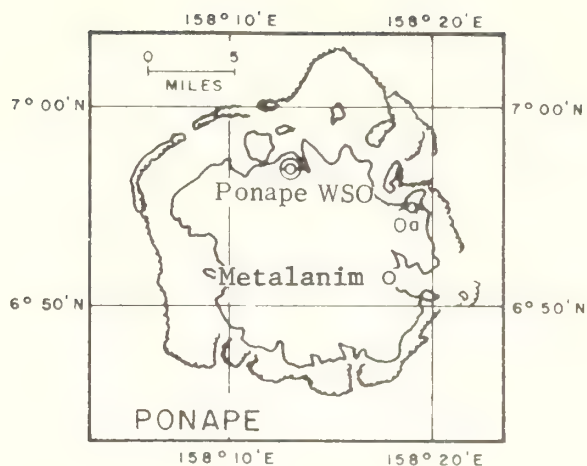
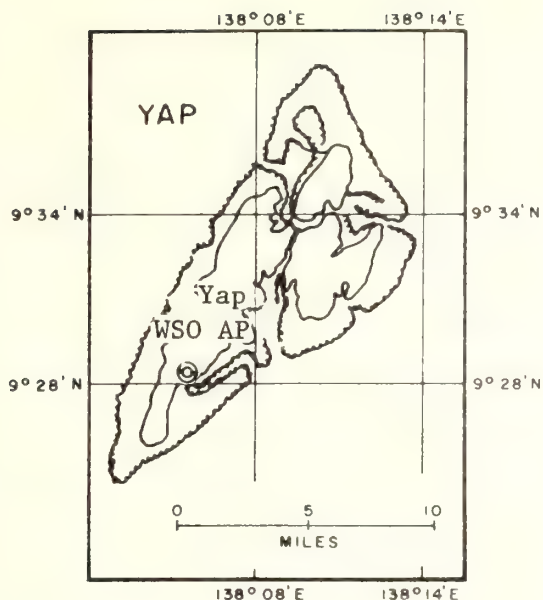




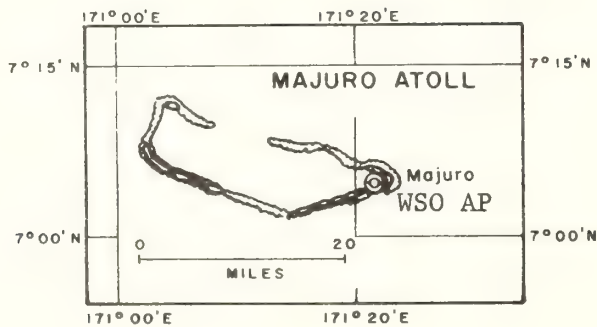
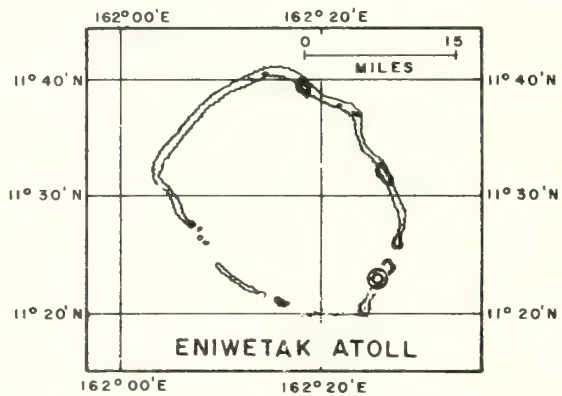
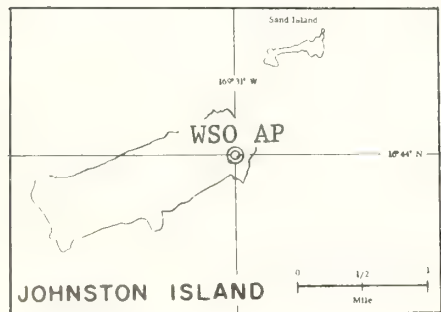
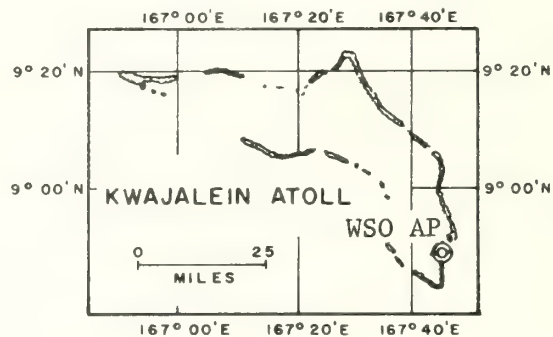
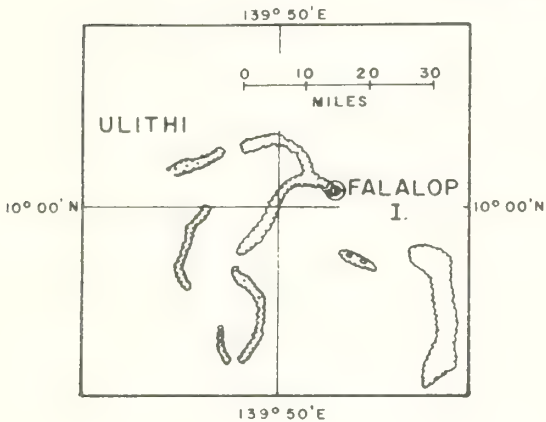
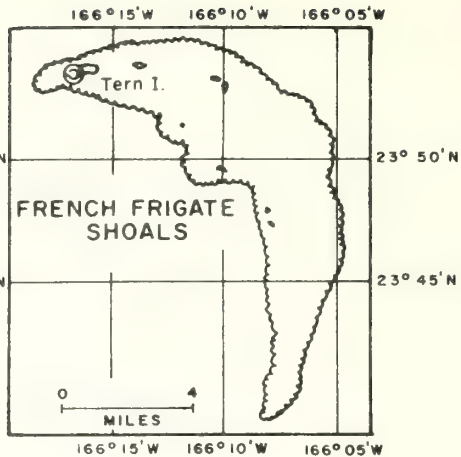
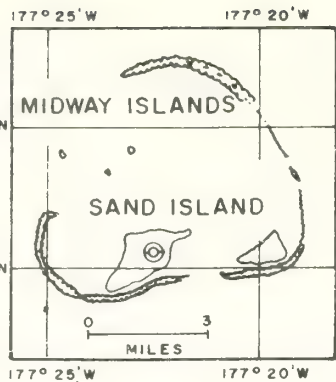
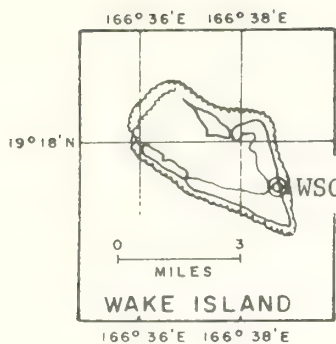


Reef





— Reef



U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE
210



THIRD CLASS
BULK RATE

Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: POUKOHOLA RESEARCH STATION HAWAII 98 DATE 05
 LOWEST TEMPERATURE: MAUNA KEA OBS 111.2 HAWAII 12 DATE 17
 GREATEST TOTAL PRECIPITATION: KALAOKA 69.22 HAWAII 12.25
 LEAST TOTAL PRECIPITATION: 12 STATIONS 0.0
 GREATEST 1 DAY PRECIPITATION: KALAOKA 69.22 HAWAII 6.48 DATE 17

SUPPLEMENTAL DATA

	WIND						RELATIVE HUMIDITY						NUMBER OF DAYS WITH						HIGHEST TEMPERATURE	LOWEST TEMPERATURE											
	SPEED			M.P.H.			AVERAGES - PERCENT						PRECIPITATION																		
	RESULTANT	DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST	M.P.H.	DIRECTION OF FASTEST WIND	WIND SPEED	STANDARD OF TIME																						
									GREENWICH CIVIL																						
								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
GUAM WSMO						E 10		69	69	87	2	11	4	0	0	17	45	7.4													
HILO WSO 87 AP	14	0.4	6.2	17	E 31+	87	78	55	60	2	13	13	0	0	0	48	7.6														
HONOLULU WSO 703 AP	6	8.8	11.2	27	NE 16	77	66	55	72	13	5	0	0	0	0	18	7.0	5.4													
JOHNSTON WSO AP	8	17.0	17.7	44	E 19	80	82	74	83	6	12	0	1	0	0	19	8.1	5.5													
KAHULUI WSO 398 AP	5	10.4	12.0	28	NE 16	70	58	71	3	3	0	0	0	0	0	73	4.8														
KOROR WSO	8	3.2	6.4	21	SE 10	87	91	80	76	5	7	10	0	0	0	26	6.7	8.8													
KWAJALEIN MISSILE RGN	7	15.7	16.2	24++	E 26+	84	85	75	79	9	11	10	0	0	0	26	7.9														
LIHUE WSO 1020.1 AP	6	8.6	10.9	23	NE 13	88	81	66	80	7	10	0	0	0	0	22	7.5	6.1													
MAJURO WSO AP	7	12.4	12.7	29	E 08	85	86	80	82	2	11	4	4	0	0	28	5.9	9.1													
PAGO PAGO WSO AP	9	7.1	11.3	32	E 15	86	86	77	85	4	9	10	0	0	0	25	1.7	7.1													
PONAPE WSO				17	E 16	88	88	79	83	3	5	11	3	7	0	31	1.8	9.4													
TRUK MOEN I. WSO AP	9	7.5	9.2	21	SE 29+	85	86	78	79	1	4	15	5	1	0	28	6	9.0													
WAKE ISLAND WSO AP	8	12.5	13.5	32	NE 19	83	86	67	72	11	13	0	0	0	0	25	6.0	3.5													
YAP WSO AP	9	6.6	7.5	23	NE 10	86	91	76	74	3	5	7	5	2	0	19	6.9	8.0													

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

noaa

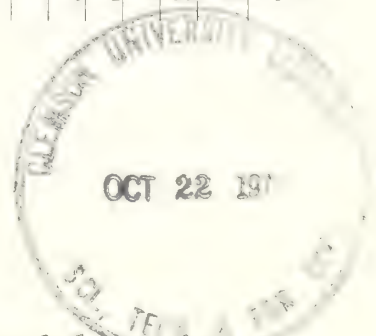
NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER



MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MAY 1979

STATION	TEMPERATURE										PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.	MIN.	TOTAL	1.00 OR MORE					TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	TOTAL	1.00 OR MORE
HAWAII																							
ISLAND OF KAUAI																							
ANAHOLA 1114	A													3.28									
KAHA OHI 1075		69.9	51.3	60.6		73 19	46 17				0 0 0 0		2.03		.63	4		0		6	0	0	
KILAJER POINT 1133		81.8M	69.8M	75.8M		86 31	65 23				0 0 0 0		4.77		.46	25		0					
KOLOA 936	A																						
THREE WSD AP 1620.1	R	81.8	68.4	75.1	.4	85 26	65 24				0 0 0 0		1.61	-.82	.38	2		0		5	0	0	
MANA 1026																							
N WAJAJA DITCH 1051	A												11.07		.39		.66	.15	19		2	0	0
PH WAINIHA 1115													9.03	-.29	2.28	4		0					
PUEHU RIDGE 1040													.49	1.47	.30	29		0		2	0	0	
WAIHANA 930	A												.98	-.77				0					
WAIHAI LOWER 1054		78.5	62.9	70.7		80 25	57 23				0 0 0 0		7.90	-.21	.92	28		0		17	4	0	
WAIHAI 947		84.8M	64.7M	74.8M		88 14	57 19				0 0 0 0		.09	-.96	.06	7		0		0	0	0	
ISLAND																							
ISLAND OF OAHU																							
A OHA STADIUM HALAWA		83.6M	66.6M	75.1M		88 31	65 30				0 0 0 0		1.81					0					
E Y U OAHU 903.1		83.5	70.0	76.8		85 31	61 30				0 0 0 0		1.34		.30	18		0		5	0	0	
HONOLULU OBSERV 701.2		85.9	64.6	75.3		90 25	61 21				2 0 0 0		.10		.07	29		0		0	0	0	
HONOLULU WSD 703 AP	R	86.7	69.3	78.0	1.1	90 24	65 23				2 0 0 0		.21	-.75	.09	31		0		0	0	0	
KANEHE MAUKA 781		80.6	69.9	75.3	1.1	84 31	67 2				0 0 0 0				.82	11		0					
KOA AU DAM 833																							
MANOA LYON ARBORETUM	A	78.4	65.9	72.2		84 31	64 31				0 0 0 0		8.19		1.60	1		0		16	4	2	
NUUANU RES 4 783													6.98	1.38	1.70	31		0		14		3	
OPAEULA 870	A	80.3	65.1	72.7	2.7	86 31	62 24				0 0 0 0							0					
PAALOOL VALLEY 718	R												7.06	2.81	1.24	16		0		14	6	1	
WAIHOLE 837																							
WAILALE 896.3	A	81.3	71.2	76.3		85 28	68 2				0 0 0 0		.94		.22	9		0		3	0	0	
WAILANA 847	H	83.8	62.5	73.2	.1	89 30	58 23				0 0 0 0		.21	1.13	.08	16		0		0	0	0	
WAIKINI 711.2		86.3	66.3	76.3		90 12	60 10				1 0 0 0		.32		.13	27		0		2	0	0	
WAIMANALO EXP FM 745.1													1.28		.46	18		0		5	0	0	
WAIPIHU 750	A												1.13		.64	29		0		1	0		
ISLAND																							
ISLAND OF MOLOKAI																							
MOLOKAI AP 524																							
ISLAND																							
ISLAND OF LANAI																							
LANAI CITY 672	A	74.4	60.5	67.5	-1.5	79 14	56 19				0 0 0 0		1.28	1.83				0				0	
ISLAND																							
ISLAND OF MAUI																							
HALEAKALA EXP FARM 434	A												1.54		.52	16		0		3	1	0	
HALEAKALA R S 338		63.3	41.7	52.5	-1.1	73 10	38 17				0 0 0 0		.96	1.36	.29	18		0		4	0	0	
HANA AIRPORT 355		82.5	68.3	75.4		85 26	65 21				0 0 0 0		3.65		.80	17		0		12	2	0	
HONOKOHIA 493	A												1.82		.30	17		0		0	0	0	
KAHANAPALI AP 453.1		84.3	65.9	75.1		87 19	60 28				0 0 0 0		.01		.01	3		0		0	0	0	
KAHULUI WSD 398 AP	R	85.3	66.5	75.9	.5	89 11	60 29				0 0 0 0		.09	-.53	.05	14		0		0	0	0	
KAILUA 446		77.2	64.5	70.9	.3	79 30	58 4				0 0 0 0		3.59	5.41	.47	17		0		0	0	0	
KEANAE 346	A												10.30					0					
KIPAHULU 258													3.08					0					
KULA HOSPITAL 267		71.1	54.7	62.9		76 31	51 21				0 0 0 0		1.19	3.73	.40	8		0		14	0	0	
KULA SANATORIUM 267															.50	19		0		5	1	0	
LAHAINA 361		85.5	66.2	75.9	1.0	89 20	62 21				0 0 0 0		.00	-.48	.00			0		0	0	0	
PAHA 406													.51	1.06	.20	3		0		2	0	0	
WAILUKU 386	A												.20	-.82	.05	3		0		0	0	0	
ISLAND																							
ISLAND OF HAWAII																							
HAWAII VOLCANO NP HQ 54	R	67.9M	56.5M	60.2M	-.2	72 30	45 6				0 0 0 0		3.88	3.87	.47	16		0		0	0	0	
HILO WSD AP 87		81.4	66.1	73.8	.3	85 9	61 2				0 0 0 0		4.10	5.97	.43	16		0		13	0	0	
HUEHUE 92.1	A												8.28		3.81	28		0		6	4	3	
KAHALA 73.2		77.3	62.4	69.9		80 31	60 17				0 0 0 0		14.68	7.70	2.34	5		0		18	8	6	
KAPOHO BEACH 93.11		85.3	67.4	76.4		89 12	64 16				0 0 0 0		3.70		.78	16		0		7	2	0	
KEARAU 92																							
KUKUNUILE HIC 194													6.44					0					
KULANI CAMP 79		64.6M	46.5M	55.6M		71 8	41 21				0 0 0 0		3.85	1.73	.66	1		0		10	2	0	
PANAMA 11	H												4.17		.55	16		0		19	1	0	
													1.79					0		0	0	0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MAY 1979

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.		MIN.							TOTAL	MAX DEPTH ON GROUND	DATE	1/24 HOUR	5/24 HOUR	1/24 HOUR
										32° OR ABOVE	BELOW 32°	32° OR BELOW	31° OR BELOW	30° OR BELOW										
HAWAII PUUKOHOLA HEI'AU 98.1 SOUTH KONA 2.31 WAI'AKEA SCD 88.2 ISLAND	87.3 72.6M	69.6 57.7	78.5 65.2M 68.5		98 78	5 2.5	65 55	29 23.4		4 0	0 0	0 0	0 0	2.06 1.48 8.67 5.26		1.55 .49 1.14	29 28 1	.0 .0 .0 .0					1 0 1	1 0 1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MAY
1979

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	5.0 OR MORE	1.00 OR MORE	
										30° OR WARMER	32° OR COLDER	30° OR WARMER	32° OR COLDER											
PACIFIC																								
• • • EAST OF 180TH MERIDIAN																								
ATU'U														7.47		1.83	4	.0	0		14	1	2	
CANTON ISLAND	89.9M	76.4M	83.2M				73	25+		0	0	0		3.56		2.80	24	.0	0		1	1	1	
FALEASAO VILLAGE														20.06		3.31	5	.0	0		20	13	7	
JOHNSTON IS WSO AP	R	83.2	74.9	79.1	.2	85	21	70	19	0	0	0		1.17	- 1.05	.83	19	.0	0		1	1	0	
FRENCH FRIGATE SHOALS																								
MIDWAY SAND ISLAND														1.71	- .51	.92	7	.0	0		3	1	0	
MALAELOA														8.89		1.46	3	.0	0		14	7	4	
PAGO PAGO WSO AP	R	86.3	76.0	81.2	1.7	88	23+	71	19	0	0	0		4.23	6.46	.75	21	.0	0		12	2	0	
WESTERN PACIFIC ISL. NORTH OF 12° N																								
AGAT														2.31		.90	10	.0	0		4	3	0	
ANDERSEN AFB GUAM					.4	85	31+	73	25	0	0	0		2.48	- 1.92	.71	27	.0	0		5	3	0	
CLARK AFB LUZON					.2	100	2	72	17	23	0	0		8.22	- 1.76	2.34	18	.0	0		9	6	2	
DEDEDO														3.16		.79	29	.0	0		9	2	0	
GUAM NAS																								
GUAM WSO	R	87.7	72.6	80.2	.8	90	31+	66	22	2	0	0		1.48	- 3.01	.38	27	.0	0		4	0	0	
INARAJAN AG STN														3.81		.90	27	.0	0		8	3	0	
INARAJAN - NASA														3.46		1.25	14	.0	0		5	3	2	
MANGILAO														1.89		.55	9	.0	0		6	1	11	
ROTA																								
SAIPAN LORAN																								
UMATAO														2.82		1.65	1	.0	0		4	2	1	
WAKE ISLAND WSO AP	R	87.3	76.3	81.8	2.0	90	25	73	22	1	0	0		.39	- 1.86	.10	9	.0	0		1	0	0	
YIGO														1.21		.28	9	.0	0		4	0	0	
CAROLINE AND MARSHALL ISLANDS																								
CNEWETAK																								
FALALOP I ULITHI ATOLL																								
KAPINGAMARANGI ATOLL																								
KOROR WSO	R	88.9	75.9	82.4	.4	91	22+	73	14	15	0	0		11.26	- 3.27	2.93	13	.0	0		14	4	4	
KWADALEIN MISSILE RMN	R	86.7	78.0	82.4	.6	88	27+	75	9+	0	0	0		2.74	- 6.97	.39	22	.0	0		10	0	0	
LELE I KOSRAE																								
MAJURO WSO AP	R	85.7	76.0	80.9	.4	88	25+	71	2	0	0	0		7.91	- 4.24	1.42	2	.0	0		15	6	2	
METALANIM														12.87		2.22	19	.0	0		22	7	6	
NGASANG-BABELTHURP																								
PONAPE WSO	R	88.1	75.1	81.6	.9	91	31+	71	29+	7	0	0		18.76	- .67	2.29	19	.0	0		23	12	9	
SATAWAN ATOLL																								
TRUK MOEN I WSO AP	R	87.2M	76.5M	81.9M	.6	91	24+	74	29+	2	0	0		13.91	- 1.83	3.37	16	.0	0		23	8	3	
WOLERI ATOLL																								
YAP WSO AP	R	88.4	74.5	81.5	.3	90	29+	72	29+	6	0	0		8.82	- 1.21	1.74	22	.0	0		14	7	2	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
1979

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	3.28	.03	.38	63	x	x			62			13	x	x	08	15			30	x	x	26		06	04	25	x	x		05	30		
BYDES4000 STA 985	A	2.21	.06	.55	07	x	x			.83	.05		07	x	x	17	04	05	10	01	x	x	04		03	01	x	x	x		01	11	07	
EAST LAWA 934	A	3.40	.07	.03	.61	x	x			.83	15	06	12	x	x	20	04	07	10	07	x	x	14		03	01	x	x	x		12	19	07	
ELELE 927	A	.75	.02	.05	05	x	x			40	01		x	09				.01	11					02	03	01	x	x	x		03	17	10	
HALAULA 1110	A	4.82	.09	.50	58	x	x			75			x	06	07									05	37	1	10	x	x					
HALAULAH 1006	A	4.33	.05	.22	.74		.52	x	x	78	03	46	03	74	x		04							10	10	05		x	x	x		43	08	
HALEI TUNNEL 1053	A	11.20	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11	20	
HUKI DO 946	A	.34			.05																													
ILILILUA INTAKE 1050	A	10.06	.19	.12	.94		.76	x	x	1.61	69	51	27	54	x		46	13	09	11	28	x	x	41	.08	12	09	28	x	1	31	61	16	09
INTAKE WAIKHA PC 1086	A	10.50	x	x	3.16		x			5.34	x		x	x			10								62	07	x	x	x					
KANALOHULULU 1075	A	2.03	04	.02	.27		28	33	22	08			02	17	03		04	01	.08	.15	.66	x	x	48	03	01	38	46	03		15	12	04	
KANOA RESERVOIR 1092	A	7.38	.10	.13	92	x	x		1.75				x	x			23	15						16	17	31	x	x		15	04	15		
KEALIA 1112	A	2.97	10	.41	50	x	x		.50				x	05	04									25		16	17	45	x	x	21	27		
KEKAHA 944	A	.03																																
KILAUEA 1134	A	7.70	05	.24	1.08		31	.16	41	05	20	x	1.20	x	x		35	x	06	x	03	08	18	x	18	x	1.35	45	x	42	x	x		
KILAUEA POINT 1133	A	4.77	.03	.70	.38		.12	10	08				92	01	32		03	10	05	05	x	1	02	02	23	48	05	x	x	04	01		03	
KOLO 1033	A	0.06																																
KOLOA 936	A	4.29	.07	.24	.82		71	x	x	84	22	10	20	x			30	04							05	05		01	x	x	10	03		
KOLOA LN (PMA) 940.1	A	1.06					.05	x	14	03	21		x	x			12																	
KOLOA MAUKA 944	A	4.78	.34	x	x	x	x	x		2	00	01	x	x	x		85	10	x					27	09	x	x	x	x	x	1	12	x	
KOLOKO RES 1137	A	7.37	.05	.01	1.24		.24	.21	78	03	04		46	06			20	15	06	1	37	31	10	05		11	1	32	08	31	11		04	
KUKULUA 935	A	1.47	.04	.03	.08		40	.02	11	x	15	02	04	10	.02	x	15	02	04	10	.02	x	x	x	.02	02								
LIHUE VARIETY ST 1062.1	A	4.70	.12	03	.08		.63	x	x	53	38	05	03	08	x		08	04	.02	05	57	x	x	02	04	25	58	05	x	x	10	04	03	
LIHUE 1020	A	2.19	.06		.62		15	x	x	39			04	07	x		06										07	10		02	x	x	17	05
LIHUE WSO AP 1020.1	A	1.61		.38	.29		.06	04	.23					02	01			14	T					03	04	05	09					13	07	T
ISLAND OF MAUI																																		
MAKALAE 965	A	.20								.20																								
MAHA 1026	A	.38			.05																													
MAHIAI UPD CROSS 1083	A	2.57		.31	.31		.23	.31	.46		.08		15	x	x		07	07		07	07													
MOLOKAI 1146	A	4.82	x	x	.31	.31	x	x	x	x	1.40	x	x	x	x		02																	
MOUNT WAIKALELE 1047	A	.42																																
ISLAND OF OAHU																																		
NIU RIDGE 1035	A	.27			.07					.03																								
N. WAILUA DITCH 1051	A	11.07	.32	01	.98		1.03	x	x	1.60	66	56	x	74	x		58	09	.13	.21	.54	x	x	61		09	11	47	x	x	1.04	.83	.18	
N. WAILUA RIVER 1055	A	7.20	x		x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7	20
PAHIAHUA 1115	A	8.03	.01	.06	1.80		2.28	x	x	2	16	01	01	55	x		05	15	.04	.35	.20	x	x	05		90	05	01	x	x	30	25		
PRINCEVILLE BRANCH 1117	A	6.01	.40	.12	.95		.38	x	x	1	10	07	02	12	x		28	16	.06		1.33	x	x	13		10	11	x	x	x	x	47		
PUEHI RIDGE 1040	A	.48			.05					.04																								
PUEHI 1013	A	3.46	.09	.16	.10		.16	x	x	.66		.03	08	32	x		21	04																
WAILAUA 930	A	.98	.11	.15	.16		.14	x	x	.38	02		x	08	T		02	05	x	x	x	08												
WAILAHI LOWER 1054	A	7.90	.16	08	.76		.69	09	49	57	47	36	06	41	08		31	03	07	08	39	39	01	21	32		19	09	15	19	08	86	44	04
WAILAHI UPPER 1052	A	8.81	.28	08	.82		.59	24	04	56	41	42	17	48	02		14	05	.11	.03	.13	.28	30	08		03	.27	05	21	35	04	02	49	.09
WAILAUA 943	A	.10								.02																								
WAILAUA KAI 1065	A	2.53			.04	.40		.40	x	.02	13		04	x			02	02																
WAILAUA 947	A	.09																																
WEST LAWA 931	A	1.23	01		.35		.16	x	x	.36	01	08					13																	
ISLAND OF OAHU																																		
ALBHA STADIUM-HALAWA	A	1.81		.11			T	x	x	05		.20		50	x		01		.01	.02														
BERETANIA PUMPING STA	A	.71			.03		T	x	x	07				01	x		14		.20															
B. Y. U. LAKE 903.1	A	1.34	01	.12	.13		T	02	T	08	21	T	04	03			04	T	.10	.04	.30	07	01	T	02	T	01		03	T			.09	
COCODELL 120 PK 702.5	A	.49								.08																								
COCONUT ISLAND 840.1	A	1.85	.01	01	T		x	x	x	08	T	x	02	.49	x		11	02	.02	07	.22	x	x	04	05	T	03						.68	
CUA PLANTATION 741	A	.40					T	x		.13																								
HONOLULU OBSERV 702.2	A	.10					T	01	04	.02																								
HONOLULU WSO 703 AP	R	3.21		T			T	01	04	T		T	T	T			T	T																
KAENA POINT 841.3	A	3.00	x	x	x	10	20	x	x	.50			20	20	x		5	41	x	x	x	x		20	x	x	x	x	x	10	x	10	20	
KAUHAU 983	A	19.86	x	x	x	50	26	x	x	2.69	x		x	x	x		5	41	x	x	x	x		46	1	x	x	x	x	3	15	x	x	
KALAHUI RES SITE 777	R	9.02	.42	.22	.38		.02	20		.24	.50	.02	32	02	04		06	18	08	.48	14	12	03	06	06	01	05						2.50	
KANEOHE MAUKA 781	A	1.28								.04			12	.82	T		11	09			10	05												
KAPALAPA 773	A	3.61	.09	.07	.05		.09	x	x	.28	.01	01		98	x		04		.26	03														
KAWAHAPA 841	A	.81		.16	.01		T	x	x										.11	.13	.53	x	x	11	T	T	T							
KEMED CAMP 855	A	.67	.02	.02	T		T	x	x	.13																								
KOBLAU DAM 833	A	7.96	.07	06	1																													

HAWAII AND PACIFIC
MAY 1979SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
MAY 1979

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
NAALEHU 14	A	2.76	.07							T	.31	.28	x	x	.34	.02	.04	.28	.13	.07	x	x	1.05	x	x	x	.14	.01	x	x	.97	.05	.04	
NAPPOPOO 28	A	4.78	x	x	x	x	x	x	66	x	x	x	x	1.33	x	x	x	x	x	x	x	1.05	x	x	x	x	x	x	x	1.74	x	x		
OKALA 223	A	4.09	.49	.06	T	10	T	24	13	.08	19	T	84	91	.45	.02	.05	.38	.13	.30	.01	.19	T	.05	.30	.01	.08	.46	.25	1.50	.20	.11	.20	
OPINIHOLE 2 24.1	A	5.41	.09	T	.01	1.99	x	x	T	14	T	.71	.01	.07	.08	.07	.12	.05	.38	.13	.30	.01	.19	T	.05	.30	.01	.08	.46	.25	1.50	.20	.11	.20
ORCHID LAND EST 91.5	A	6.97	x	x	x	1.99	x	x	x	x	x	1.54	x	x	x	x	x	2.76	x	x	x	x	x	x	x	.68	x	x	x	x	x	x		
PAAUHAU 217	A	2.33	.41	.08					.08					.28	.58	.08	.23					.25	.28				.02							
PAAUHAU 221	A	2.46	.32	.11	T				.10		T			.04	T	1.10	.22	.09	.13			.23	.24											
PAAUHAU 21	A	1.79	.03	.01							.22	.25	.04			.01	.07	.13	.25	x	x	.09	.15	.28	.08	x	x	x	x	.49	.02	.08	.27	
PAAUHAU 65	A	6.37	.18	.10	.15	.09	x	x	95	15	09	14	38	x	x	69	25	55	75	22	x	x	.09	.15	.28	.08	x	x	x	x	.75	.03	.08	.02
PAPAIAKU 144.1	A	6.95	.94	.11	.10	13	x	T	.89	.03	10	21	24	T	T	81	80	71	15	16	x	x	.09	.15	.28	.08	x	x	x	x	.16	.02	.08	.02
PAPAIAKU PAAUHAU 140.1	A	10.07	.69	.35	.25	17	x	x	78	08	03	68	.30	T	x	1.15	1.31	95	1.34	.47	x	x	.48	.15	.22	.03	.05	x	x	x	.51	.01	.06	.06
PAPAIAKU 89	A	10.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PAPAIAKU 89.1	A	2.06	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PAPAIAKU 73	A	1.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PAPAIAKU 0-HONOLULU	A	2.04	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
SOUTH KONA 2.31	A	1.48	.10								.06			.03		.02	.03			.01				.02	.20	.08	.03	.30	.49	.17				
UPOLU POINT USCG 159.2	A	1.17	.50	.31	.50	.06	.18	.01	.01		.24	.62	.36	.13	.97	.20	1.14	.44	.61	.27	.30		.06	.23	.22	.18	.04	.33	.02	.41	.62	.13	.03	
WAIKAKA SCD 88.2	A	8.67	.50	.31	.50	.06	.18	.01	.01		.24	.62	.36	.13	.97	.20	1.14	.44	.61	.27	.30		.06	.23	.22	.18	.04	.33	.02	.41	.62	.13	.03	
WAIKAKA 88-015 CAS 95.0	A	2.15	.02								.03	.09	.28	.05	.04	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
MAY
1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EASTERN PACIFIC																																	
ADRIAN ISLAND	1.47	.05	.03	.02	1.81	.18	.15			.25	.12	.28	.05			.21	.13	.35	.15	.02	T	.28	.05	.04		.02	1.31	.01	.04				
ADRIAN VILLAGE	1.46	T		.12	T	.12			.05	.11							.08	.11	T				.05	.04		T	.02	1.31	.01	.04			
ADRIAN VILLAGE	20.06	.34	.31	.08	.16	.31	.09	.02		.38	.76	.64	1.29	.03	.04	.06	.61	1.24	2.45	.01	.16	.25	.86	1.16	1.81	.92	2.10	.78	.05	.15			
ADRIAN VILLAGE	1.17	T			.01	.01		.01	.09				.05	.01	T	.01	.08	.02	.03	T		.01	T	T		.03							
ADRIAN VILLAGE	1.71	.02	.71	.46	.49	.33	1.26	.92	T	T	1.05	T	T	.16	.15	1.10	.60	.42	T	T	.52	.06	T		.18	.49		T	T		.01		
ADRIAN VILLAGE	8.89	T						.01	T	T	.51	.02	.08	.17	T	.08	.19	.11	.46	T	T	.07	.75	T	.09	.44	.32	T	.01	T	.02		
ADRIAN VILLAGE	4.23	.01	.20	.19	.39	.11	.01																										
WESTERN PACIFIC																																	
NORTH OF 12 N																																	
AGAT	2.31				.01			.10		.80				.80						T	.13	T				.04	.71	.50					
ANDERSON AFB GUAM	2.48	.01						.02	.30	.61	.01			.02						T	.13	T				.04	.71	.50					
ANDERSON AFB GUAM	8.22				.02	T														T	.13	T				.04	.71	.50					
ANDERSON AFB GUAM	1.15	.02	.01	.07	.02	T		.17	.17	.17	1.81	.23	.09	.53	T	.81	.24	.19	.01	.02	T	T	.89	.77	T	T	.03	.01	T	.49			
ANDERSON AFB GUAM	1.89							.01	.55	.03				.25						.01	.30	.01	.02			.05	.18	.01	.06	.50	.79	.02	
ANDERSON AFB GUAM	1.48	.05		.03				.04	.16	.02				.06			.01	.18		.01	T				.01	.01	.38	.35	T	.09	.08		
ANDERSON AFB GUAM	1.81	.01						.03	.55	.39				.76			.28								.20		.80	.20					
ANDERSON AFB GUAM	3.46	.01	.01					.02	1.02					1.25			.06		.10	.06					.15	.75	.49	.03					
ANDERSON AFB GUAM	1.89			.02	.02			.01	.55	.03				.25			.28	.05							.24		.20	.22	.01				
ANDERSON AFB GUAM	2.82	1.65	T					T			T	T	T	.10								.17			T	T							
ANDERSON AFB GUAM	1.19	.01	.03	.08	.02	T		.02		.10	.01	T	T	.03	T	.01	.02	T	T	T	.02	T	.01	.02	T	.01	T	.01	T	.90	T	.02	
ANDERSON AFB GUAM	1.21	.05	.72							.28	.02			.07				.07		.05	.05				.02	.01	.05	.04	.02	.17	.15	.02	
CAROLINE AND MARSHALL ISLANDS																																	
ENUEWATOK																																	
ENUEWATOK	11.26	.38	T		.08	1.47	T	T	.08	.42	.26	.33	1.49	2.93	2.09	.01	.36	.04		.32		.41	T	.02	.02	.01							
ENUEWATOK	2.74	T	.04	.35	.06	.66		T		.22	.05	.05	.31	.17	.20	.05	.05	.01	T				.39	T	.06	.11	.04	T	.13	.28	.10	.01	
ENUEWATOK	1.91	1.38	1.42	.52	.62	.07	.55	.24	.69	.19	.01	.21	.06	T	.16		.48	.02		.23	.10	.05	T	.32	.02	.04	.06	.43	.01	.03	.02		
ENUEWATOK	12.87	1.14	.28	1.10	.25	.47	.10	.67	.06		.24	1.76	.03	1.26	T		.16	1.20	.24	2.22	.23	.01	.04	.02	.01	.37	.23	.12	.13	.32	.11	.10	
ENUEWATOK	18.76	1.12	1.07	.32	1.52	1.12	.08	.39	.46	.06	1.24	.70	.33	.39	.10	.18	1.25	.56	.26	2.29	T	T	.37	.08	.03	.48	.30	2.10	1.18	.04	T	.54	
ENUEWATOK	4.4	.08	.70		.44	.84	.28	.20	.18	1.18	.11	.64	.15	.90	T	.11	3.37	.05		.01			.04	.10	.15	.21	.31	.59	.48	.11	.12		
ENUEWATOK	8.82				.17	T	.08	.14	1.59	.30	.76	T	.64	.29	.06	.55	T	.98		.17	.02	.72	1.74			.05			.02		.24	.30	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	69 46	65 54	70 55	68 58	71 57	69 56	70 55	70 51	70 50	72 46	73 47	71 47	70 54	70 55	68 55	70 56	67 46	72 48	73 49	71 56	70 50	70 52	71 49	71 50	70 48	71 55	70 48	68 50	69 50	70 49	67 48	69.9 51.3
KILAUEA POINT 1133	MAX MIN	82 70	79 67	79 69	78 69	80 70	81 73	81 71	81 71	84 68	84 71	82 71	81 71	80 59	80 68	80 70	80 70	82 66	82 71	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	81.8 69.9
KOLOA LN (MAK) 940.1	MAX MIN	80 66	83 68	84 67	83 68	83 68	82 70	82 64	84 67	86 71	86 72	86 71	87 72	86 74	87 73	85 68	86 71	86 68	85 70	87 68	87 69	87 70	87 69	87 70	87 70	87 70	87 70	87 70	87 70	87 70	87 70	87 70	85.6 70.0
LIMU WSO AP 1020.1	MAX MIN	82 71	74 69	80 68	82 68	81 70	82 69	81 71	81 71	81 71	82 66	82 65	83 69	82 69	82 69	83 68	80 65	82 66	82 66	84 72	83 67	82 67	83 68	81 68	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81 65	81.8 68.4
NIU RIDGE 1035	MAX MIN	82 59	84 59	81 62	83 64	85 63	84 64	84 61	84 63	84 62	81 63	81 62	81 64	88 63	88 62	85 63	85 61	85 59	82 61	80 61	87 65	87 60	87 60	87 60	87 60	87 60	87 60	87 60	87 60	87 60	87 60	87 60	84.5 62.3
WAIKAI LOWER 1054	MAX MIN	77 58	78 59	75 63	79 65	79 65	78 65	79 66	79 66	78 66	79 66	78 66	79 66	80 62	75 65	79 65	79 63	78 58	79 63	80 62	79 63	80 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	79 63	78.5 62.9
WAIKAI 947	MAX MIN	82 64	85 64	81 65	83 68	87 65	86 62	86 65	84 65	85 65	83 68	84 68	88 66	88 67	85 63	86 63	86 63	84 62	85 62	86 59	86 65	86 65	84 63	84 65	84 65	85 65	86 65	85 64	85 64	85 64	84 62	84 66	84.8 64.4
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	82 66	82 67	83 67	82 69		83 70	83 67	87 66	84 66	87 67		85 67	81 67	80 65	79 65	84 65			84 65	82 65	82 66	84 67	85 67					88 65	85 65	88 67	83.6 66.6	
B Y U LAIE 903.1	MAX MIN	82 71	83 69	82 71	83 72	83 71	82 70	83 69	83 70	83 72	83 71	83 67	83 66	83 73	84 73	83 72	83 70	83 69	84 77	84 77	84 78	84 66	84 65	84 73	84 74	84 72	84 67	84 67	85 67	84 65	85 61	85 66	83.5 70.0
HONOLULU OBSERV 702.2	MAX MIN	85 61	87 64	86 65	86 64	86 64	85 63	85 63	85 63	88 64	84 64	84 64	84 64	80 65	87 64	87 64	86 64	83 62	84 62	86 62	89 61	86 61	86 61	87 61	86 61	86 61	86 61	86 61	86 61	86 61	86 61	86 61	85.9 64.6
HONOLULU WSO 703 AP	MAX MIN	86 68	86 68	87 69	88 71	87 71	83 72	88 67	85 68	89 70	85 70	85 69	90 69	86 72	86 73	85 69	88 67	89 66	89 66	86 72	86 72	86 70	87 67	86 65	87 71	87 72	86 73	86 70	86 66	86 66	87 67	86.7 69.3	
KANEIHE MAUKA 781	MAX MIN	78 69	78 69	76 68	81 71	80 69	80 71	82 72	80 71	82 69	82 70	82 71	82 71	82 72	82 71	82 71	82 69	82 69	82 69	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	82 70	80.6 69.9
MANOA LYON ARBORETUM	MAX MIN	74 64	77 64	78 64	78 68	75 69	75 66	77 67	81 64	80 65	80 65	82 65	82 65	78 67	75 67	75 65	74 65	74 65	74 65	83 67	74 67	74 67	74 67	74 67	74 67	74 67	74 67	74 67	74 67	74 67	74 67	74 67	78.4 65.9
OPALEA 870	MAX MIN	77 67	78 64	76 65	79 66	77 66	76 66	79 67	80 66	80 64	80 64	82 64	82 64	78 67	74 66	77 66	78 66	79 66	79 66	74 64	76 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	80.3 65.1
WAIKALEE 896.3	MAX MIN	79 69	80 68	80 68	80 72	80 71	79 69	79 69	81 70	80 71	81 71	82 71	80 71	80 69	81 73	82 73	81 71	80 69	80 71	81 70	81 74	81 75	81 73	81 73	81 73	81 73	81 73	81 73	81 73	81 73	81 73	81 73	81.3 71.2
WAIKALEA 847	MAX MIN	83 60	84 63	83 61	82 62	80 60	84 64	86 58	83 63	86 61	87 65	84 65	88 60	84 60	80 64	82 64	81 65	81 61	81 60	84 50	84 64	84 60	84 62	84 58	84 64	84 62	84 68	84 68	84 68	84 68	84 68	84 68	83.8 62.5
WAIKIKI 717.2	MAX MIN	85 67	86 66	86 67	87 66	88 67	87 69	85 70	86 65	86 64	87 60	89 64	90 65	86 59	85 59	85 59	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	84 56	86.3 66.3
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	77 64	80 63	81 63	78 64	82 63	81 62	78 60	80 62	80 63	77 65	82 63	77 62	80 65	81 64	78 64	78 63	76 59	77 62	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78 64	78.9 62.7
LANAI CITY 672	MAX MIN	72 59	75 59	74 63	76 63	69 59	68 59	75 62	76 59	76 58	78 64	76 58	78 58	73 62	79 61	70 59	71 63	75 61	74 61	76 56	74 62	73 62	74 61	75 61	74 62	74 61	74 61	74 61	74 61	74 61	74 61	74 61	74.4 60.5
ISLAND OF MAUI																																	
HOLEKALUA R 5 338	MAX MIN	60 39	60 40	63 41	60 39	63 41	61 43	66 42	62 46	67 48	73 47	67 40	67 41	64 39	68 51	64 43	61 39	56 38	60 40	62 40	62 46	67 46	67 40	67 41	67 40	67 40	67 40	67 40	67 40	67 40	67 40	67 40	63.3 41.7
HANA AIRPORT 355	MAX MIN	80 69	79 65	82 69	83 71	83 67	83 70	83 70	83 69	83 69	84 69	84 70	83 71	82 68	83 68	81 68	80 68	83 68	83 68	84 68	83 67	82 65	82 65	82 65	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	82.5 68.3
KANAPALI AP 453.1	MAX MIN	83 66	81 61	84 67	84 66	84 70	86 72	85 64	86 66	85 64	86 68	86 64	86 64	85 69	86 68	80 67	83 63	84 64	85 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	86 65	84.3 55.9
KAHULUI WSO 398 AP	MAX MIN	80 69	83 63	84 66	84 69	84 70	86 71	86 63	86 66	89 66	89 66	87 65	85 72	84 68	84 68	84 68	84 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	86 68	85.3 66.5
KAILUA 446	MAX MIN	76 59	75 65	76 66	76 68	77 64	76 65	78 69	77 67	78 65	79 65	77 65	78 65	78 65	72 63	74 66	74 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	77.2 64.5
KEAWAKAPU BEACH 260.2	MAX MIN	86 62	84 59	83 64	84 63	88 61	88 62	88 62	88 62	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87 66	87					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MAY 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KULA SANATORIUM 367	MAX MIN																																
LAHAINA 361	MAX MIN	85 67	85 66	85 70	84 68	82 62	83 63	85 62	85 63	85 65	88 68	85 67	86 66	87 67	85 67	85 63	86 65	85 64	85 65	87 64	89 63	86 62	83 69	85 70	87 72	86 64	86 72	87 70	86 69	86 65	85 65	87 68	85.5 66.2
ISLAND OF HAWAII																																	
HAWAII VOLCONS NP HQ 54	MAX MIN	67 53	68 49	71 53		72 53	69 45	68 53	64 53	70 57	69 57	66 56	69 54	69 54		67 51	65 52	65 54	68 52	70 53	68 52	68 48	68 52	64 53	65 52	66 53		70 50	67 55	66 53	72 52	71 52	67.9 52.5
HILLO WSO AP 87	MAX MIN	80 66	81 61	84 67	83 64	84 65	82 66	80 68	83 66	85 66	83 69	80 68	81 67	82 68	78 67	79 65	75 66	83 68	84 67	83 67	81 66	82 66	78 66	79 64	79 65	81 65	81 67	82 67	80 67	83 65	84 65	83 64	81.4 66.1
KAINALILO 73.2	MAX MIN	78 61	79 61	78 63	79 64	78 62	78 62	76 60	77 61	78 63	80 65	77 65	74 62	77 63	77 65	80 61	77 61	76 60	79 62	78 61	79 61	76 62	77 64	77 61	75 62	77 65	75 61	77 65	74 63	77 65	80 63	77.3 62.4	
KAMUELA 132.2	MAX MIN	71 59	73 56	78 55	75 55	71 56	73 59	73 58	74 53		78 52	75 53	75 59	72 58	76 57	70 58	71 58	70 59	75 53	74 54	73 58	74 57	70 58	70 58	76 57	76 58	74 56	72 54		78 57	76 60	76 53	73.8 56.5
KAPOHO BEACH 93.11	MAX MIN	84 66	84 65	85 69	89 67	86 68	85 68	85 67	87 69	86 69	86 70	87 70	89 70	84 71	85 67	82 66	81 64	83 65	86 68	83 66	85 69	84 65	83 66	82 66	86 68	87 66	85 67	87 69	87 69	86 65	88 67	86 67	85.3 67.4
KONA IKAILUAI 68.3	MAX MIN																																
KULANI CAMP 79	MAX MIN	62 47	64 43	62 44	66 45	63 45	63 44	61 46	71 45	68 43	64 49	64 52	63 46	65 49	69 45	68 45	59 48	59 46	60 46	64 46		63 41	66 46	67 45	66 43	66 42	66 54	66 42	61 51	66 45	70 47	65 44	64.6 46.5
MAUNA KEA OBS 111.2	MAX MIN	53 36	51 36	51 37	48 38	37 34	43 26	47 26	50 32	53 34	46 30	48 30	47 27	46 24	49 25	43 23	42 12	49 23	49 32	42 32	45 28	55 32	56 34	52 28	53 22	53 32	45 30	49 33	46 33		49 30	48.3 28.2	
MAUNA LOA SLOPE OBS	MAX MIN	54 36	55 36	55 37	55 38	56 34	54 38	57 38	59 41	59 42	57 36	54 37	51 33	53 34	51 33	52 33	50 33	50 33	51 38	56 38	58 41	56 38	56 39	57 43	60 41	60 40	58 41	56 38	54 38	52 37	52 38	49 37	54.7 37.4
MOUNTAIN VIEW 91	MAX MIN	76 61	72 56	79 56	78 61	80 60	80 61	80 60	73 60	76 62	80 61	75 63	75 61	73 63	74 61	72 60	73 60	71 60	76 60	78 61	77 60	78 59	77 60	72 61	73 61	75 61	79 62	76 61	82 62	77 59	79 59	80 60	76.3 60.4
NAALEHU 14	MAX MIN	79 60	77 61	79 61	79 60	75 61	74 64	79 64	76 64	78 65	78 65	77 64	76 63	75 62	79 61	74 62	77 63	76 62	77 61	74 63	74 58	79 59	76 61	77 64	77 63	75 65	79 63	76 63	78 63	78 63	78 63	76.7 62.6	
OOKALA 223	MAX MIN	76 66	76 64	77 64	79 65	80 66	80 66	78 66	79 58	69 57	70 60	75 63	76 60	75 56	70 56	66 56	66 58	72 65	79 66	80 65	79 65	79 65	78 66	76 64	79 65	77 61	79 67	79 66	80 66	78 65	79 64	79 62	76.3 63.2
OPIHIHALE 2 24.1	MAX MIN	80 58	77 58	82 63	80 59	80 60	80 57	77 60	78 63	79 60	77 63	76 59	79 62	80 61	76 58	78 58	79 57	76 56	78 59	80 62	80 60	80 60	76 60	77 60	77 59	77 60	80 61	77 63	78 63	79 60	79 60	78.2 60.0	
PJJKOHOLA HEIAU 98.1	MAX MIN	82 68	89 67	86 70	86 79	98 71	90 74	89 71	87 69	87 71	86 71	87 70	88 69	88 68	89 69	91 69	83 70	88 69	81 69	87 69	87 68	88 67	82 68	89 70	86 69	87 70	88 70	88 70	87 70	87 65	85 69	86 69	87.3 69.6
SOUTH KONA 2.31	MAX MIN	78 55	74 56	75 58	77 62	72 59	72 56	77 57	74 58	72 61	75 59	70 61	73 58	71 61	71 58	70 56	70 55	71 55	77 56	75 58	74 56	78 57	66 55	71 60	65 56	75 60	67 57	72 61	67 60	73 56	72 56	72.6 57.7	
UPOLU POINT USCG 159.2	MAX MIN	80 67	81 67	81 68	80 69	82 68	82 66	82 66	83 66	83 69	83 69	83 70	84 69	82 69	82 70	82 67	79 66	79 66	83 69	83 70	83 66	82 67	81 67	84 68	83 69	83 68	84 71	84 69	85 68	85 67	85 68	85 68	82.5 67.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MAY 1979

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	91 77	90 76	90 75	89 79	90 76	90 76		90 76	91 74	90 73	90 79	91 78	90 77	90 78	91 78	91 78	90 77	89 74	90 79	90 79	90 74	90 74		90 74	88 71	88 76	88 76			89 77	88 78	89.4 76.4	
JOHNSTON IS WSO AP	MAX MIN	82 76	82 75	83 72	83 76	83 75	83 76	83 75	83 75	82 76	84 76	82 74	82 74	83 76	84 72	84 76	83 74	83 72	83 72	85 74	85 77	84 74	83 76	84 74		83 76	84 71	84 76	84 76	84 76	84 76	84 76	84.2 74.9	
FRENCH FRIGATE SHOALS	MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN	73 65	75 65	76 66	75 60	78 70	83 70	73 61	74 63	72 63	73 64	75 66	78 69	77 69	83 68	81 68	79 68	75 65	74 65	77 64	80 69	79 70	82 72	79 69	77 68	74 71	77 68	77 68	78 65	78 69	79 70	78 70	77.1 67.0	
PAGO PAGO WSO AP	MAX MIN	84 76	86 75	86 76	83 74	86 76	88 73	87 74	87 74	87 73	85 75	87 81	87 80	87 81	87 80	86 77	86 78	86 72	83 71	85 72	87 73	87 76	87 76	87 76		87 75	88 75	87 74	87 78	86 78	86 81	87 81	86.3 76.0	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12° N																																		
ANDERSEN AFB GUAM	MAX MIN	83 77	84 76	85 77	84 77	83 76	83 77	83 76	80 75	83 77	83 76	83 76	83 77	83 77	82 76	84 76	84 76	84 78	84 78	84 77	84 76	84 76	84 77		82 76	83 76	84 77	84 77	84 77	84 77	84 77	85 77	84.2 76.6	
CLARK AFB LUZON	MAX MIN	99 77	100 79	95 81	97 79	97 79	97 79	97 79	97 77	97 77	97 77	97 75	91 75	90 73	88 73	93 73	91 75	84 72	84 73	93 73	95 75	93 77	93 75	84 75		84 73	90 75	90 75	86 75	88 75	90 75	82 75	92.0 75.9	
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	86 71	86 75	88 74	87 72	87 72	88 75	88 74	88 74	83 74	86 75	88 75	88 75	88 74	87 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	87.7 72.6	
INARAJAN - NASA	MAX MIN	86 73	86 73	86 74	88 74	87 74	87 75	88 75	86 75	87 74	86 73	87 75	87 74	86 73	86 73	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86.7 72.9	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	84 76	84 76	87 76	87 77	85 77	84 75	87 75	87 77	88 74	89 75	87 77	88 77	88 77	88 77	86 76	88 76	88 76	88 76	87 74	85 75	86 77	89 73	89 78	89 76		90 78	88 76	88 77	88 77	87 76	87 77	87.3 76.3	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENMETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 76	89 77	91 78	91 76	84 75	89 76	91 77	90 77	88 75	89 75	87 75	81 74	89 73	90 76	88 76	90 76	90 77	88 75	91 75	91 76	91 76	89 75	89 75	89 75		90 77	90 77	90 77	88 76	88 75	90 77	90 76	88.9 75.9
KWAJALEIN MISSILE RGN	MAX MIN	87 79	85 79	85 75	86 78	86 75	87 80	86 79	88 80	87 75	87 77	87 77	87 77	85 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	87 77	86.7 78.0	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	83 73	81 71	82 75	85 74	85 75	82 73	86 77	86 74	84 77	86 77	87 75	87 76	87 76	87 78	87 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	85.7 76.0	
METALANIM	MAX MIN	85 73	86 74	87 73	86 74	86 74	87 74	87 74	88 77	88 77	86 75	87 72	86 77	88 74	87 77	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86 76	86.9 73.5	
PONAPE WSO	MAX MIN	86 75	87 74	87 75	85 74	84 75	88 75	87 76	89 78	88 75	89 75	87 78	87 77	89 77	89 80	86 75	90 74	89 76	85 73	89 77	89 77	89 77	90 72	90 74	91 71		90 74	90 77	88 76	85 73	89 71	89 77	91 75	88.1 75.1
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	87 77	87 77	87 77	85 75	88 75	88 78	87 75	87 77	88 76	87 77	88 79	85 74	91 78	86 77	81 74	87 77	89 78	88 77	89 77	89 77	89 77	87 77	89 77	91 77		88 77	89 77	88 77	82 75	89 74	87 76	88 77	87.2 76.5
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	90 77	90 78	90 76	89 74	90 76	90 74	89 74	85 74	85 74	84 75	89 75	88 75	88 74	87 75	89 76	89 73	88 72	89 72	89 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88.4 74.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MAY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																		
ISLAND OF KAUAI																																		
TIME WSO AP 1020.1	EVAP	.30	.40	.14	.27	.34	.23	.35	.28	.23	.28	.25	.26	.34	.32	.39	.42	.44	.24	.41	.41	.37	.33	.30	-	-	.30	.30	.18	.16	.36	.30	9.518	
	WIND	210	178	187	161	230	232	254	210	138	114	90	121	173	249	237	246	186	123	151	184	169	135	143	128	124	169	88	75	68	97	78	4948	
	MAX	81	84	84	82	83	78	82	82	80	86	86	87	87	82	82	83	82	84	84	86	85	84	84	85	-	89	86	80	84	87	89	83.9	
	MIN	62	58	64	67	63	63	63	64	64	63	60	65	64	63	62	62	60	61	62	62	63	64	62	60	-	61	62	63	64	61	62	62.5	
ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2	EVAP	.35	.45	.37	.35	.45	.42	.30	.40	.30	.33	.40	.37	.45	.47	.60	.45	.35	.45	.45	.60	.60	.45	.45	.52	.55	.45	.45	.45	.33	.45	.45	13.46	
	WIND	24	21	18	16	27	34	35	26	21	24	24	21	25	38	33	32	25	26	28	31	30	26	23	34	18	21	26	20	24	42	26	819	
	MAX	85	91	88	87	90	90	84	87	90	86	88	87	92	98	96	92	87	86	87	92	90	88	87	88	89	87	91	88	86	85	91	88.5	
	MIN	62	65	64	64	64	64	64	64	65	65	66	65	66	65	65	64	65	62	64	65	65	64	64	62	64	65	65	68	65	64	64	66	64.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MAY 1979

STATION	DAY OF MONTH																															TOTAL OR AUG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
■ ■ ■ EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.36	.39	.31	.33	.27	.35	.34	.29	.30	.30	.37	.33	.35	.43	.20	.40	.42	.33	.11	.30	.36	.32	.22	.32	.43	.18	.31	.28	.47	.18	.42	9.37	
	WIND	195	227	222	218	242	210	193	153	151	183	188	209	195	207	195	219	180	170	264	230	190	185	191	185	149	165	194	193	141	140	133	5672	
PAGO PAGO WSO AP	EVAP	.29	.11	.06	.16	.19	.12	.20	.18	-	.30	.23	.26	.28	.25	.21	.09	.45	.10	.09	.15	.26	.24	.17	*	.30	.17	.21	.23	.23	.27	.26	5.268	
	WIND	147	98	164	188	134	40	28	52	80	81	181	166	175	152	181	94	93	94	14	43	88	77	47	36	99	73	43	143	153	163	203	1119	
	MAX	95	94	94	80	83	85	98	97	91	84	91	91	91	88	91	91	91	91	90	93	91	94	94	92	92	95	95	94	94	92	91	91.5	
	MIN	75	75	74	75	76	77	72	63	79	73	77	76	76	76	76	75	74	74	73	73	73	72	75	75	75	74	74	73	75	76	77	74.4	
■ ■ ■ WESTERN PACIFIC IS. NORTH OF 12 N																																		
GUAM WSO	EVAP	.30	.35	.29	.39	.37	.32	.32	.26	.16	.33	.35	.38	.34	.36	.38	.31	.39	.18	.45	.54	.49	.45	.41	.38	.39	.25	.08	.15	.43	.26	.17	10.33	
	WIND	163	183	163	201	140	136	134	164	136	187	143	123	149	165	135	97	88	110	189	161	130	88	79	85	53	48	61	121	144	136	77	3999	
	MAX	86	85	85	86	88	88	89	88	81	85	89	87	89	88	89	87	88	87	87	88	99	89	89	89	91	85	86	82	87	90	89	91	87.4
	MIN	69	69	69	68	66	69	71	72	70	70	68	68	69	72	70	68	68	70	70	71	69	67	69	70	70	69	71	71	72	72	72	69.6	
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																		
YAP WSO AP	EVAP	.32	.45	.23	.29	.18	.28	.22	.14	.07	.12	.23	.12	.33	.19	.22	.27	.32	.25	.27	.34	.19	.26	.21	.28	.28	.25	.24	.13	.30	.22	.21	7.41	
	WIND	100	108	89	105	100	99	86	76	92	79	136	111	69	75	68	96	85	58	50	76	19	71	51	58	84	74	35	21	28	43	49	2793	
	MAX	96	96	91	96	96	94	94	88	93	94	93	97	93	96	96	97	95	96	93	94	86	89	96	97	97	97	97	93	98	97	98	94.6	
	MIN	74	74	75	75	75	76	76	75	76	76	75	75	75	76	75	76	75	76	74	75	75	75	75	75	75	76	76	74	75	76	77	75.2	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MAY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHULA 1114	A 0145	01	KAWAIIHAU		22 08	159 18	180		7A			LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600					LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILULA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A				STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU		22 05	159 20	175					LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9		8A			KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	01	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI		21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU		22 11	159 23	560		8A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE		22 01	159 23	380		7A			LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250	5A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760					DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565					J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170					NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21					HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILUA		21 33	158 00	1274					WAILUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260					WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	1919	02	HONOLULU		21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO		21 31	157 54	800		WI			WAIHOLE WATER CO LTD

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								TEMP.	PRECIP.	EVAP.	SPECIAL -SEE NOTES	
ISLAND OF OAHU												
KAHUKU 912	A	2570	01	KOOLAULOA	21 42	157 59	15					KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	21 24	157 45	10					KAILUA FIRE STATION
KALIHI RES SITE 777	R	2960	02	HONOLULU	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEOME MAUKA 781		3113	01	KOOLAUPOKO	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A	4318	05	WAIALUA	21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A	4766	05	WAIHAWA	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7		5655	01	KOOLAUPOKO	21 24	157 49	240					NATL WEATHER SERVICE
MAKAHA PUMP 800.2		5782	04	OAHU	21 29	158 12	400					CAPITAL INVESTMENT CO
MAKAKILO 730.1		5789	03	OAHU	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1		6122	02	HONOLULU	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM		6128	02	OAHU	21 20	157 48	500	8A				LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	21 21	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	21 21	157 46	195					EXP STN H S P A
MOANALUA 770		6395	02	HONOLULU	21 21	157 54	210		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	21 31	158 09	4025					FAA
NUUANU RES 4 783		6928	02	HONOLULU	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A	6933	02	HONOLULU	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	21 34	158 02	1060	7A				WAIALUA SUGAR CO INC
PAIKO DR 723.4		7540	02	HONOLULU	21 17	157 44	10		6P			D J GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	21 23	157 41	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	21 20	157 48	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	21 23	157 56	120					PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	21 19	157 54	20					NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	21 19	157 51	160		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	21 38	158 02	750					JOHN W VOLLRATH
PUU MANAWAHUA 725.6		8500	03	OAHU	21 23	158 02	1690		8A			RICHARD FEINER
TANTALUS 2 780.5		8738	02	HONOLULU	21 19	157 52	1115		7A			R E WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863		8945	05	WAIHAWA	21 30	158 03	854					WAIALUA SUGAR CO INC
WAIHOLE 837	A	8964	01	KOOLAUPOKO	21 28	157 53	745		8A			WAIHOLE WATER CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALEE 896.3		9190	01	KOOLAULOA	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A	9195	05	WAIALUA	21 35	158 17	32	7A	7A			WAIALUA SUGAR CO INC
WAIANAE 798.2	A	9231	04	WAIANAE	21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A	9261	03	EWA	21 28	157 56	800		M1			WAIHOLE WATER CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1		9523	01	KOOLAUPOKO	21 20	157 43	60		7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	21 20	157 43	120					U H WAIMANALO EXP FARM
WAIMER 892		9593	05	WAIALUA	21 38	158 04	330					WAIALUA SUGAR CO INC
WAIPAHU 750	A	9738	03	EWA	21 23	158 01	59					WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R	9980	02	HONOLULU	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A	2896	01	MOLOKAI	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	21 06	157 01	70					MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A	4394	01	MOLOKAI	21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KUALAPUU 534	A	4778	01	MOLOKAI	21 09	157 02	825					DEL MONTE CORPORATION
MAUNALO A 511	A	6190	01	MOLOKAI	21 08	157 13	1070					MOLOKAI RANCH CO LTD
MOLOKAI AP 524		6534	01	MOLOKAI	21 09	157 06	450	8A	8A			HAWAIIAN AIR
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	21 09	156 44	700					CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A	3130	01	LAHAINA	20 52	157 00	1650		WI			U S D A
KAUMALAPU HARBOR 658		3461	01	LAHAINA	20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	20 49	156 53	3370		WI			U S D A
MAHANA 694	A	5704	01	LAHAINA	20 52	156 55	1430		MO			U S D A
MALAEUA 676	A	6012	01	LAHAINA	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A	9021	01	LAHAINA	20 47	156 52	2000		WM			KOELE COMPANY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AWAHI 25	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIE D 46 474	A 0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	A 0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R S 338	A 1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALEMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAUPOKO 485	A 1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	A 1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUH CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KANAPALI AP 453.1	A 2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULO MAUKA 482.3	A 2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMAH INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	A 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIKU 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	A 2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	A 3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	A 3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	A 4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	A 4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	A 4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	A 5000	02	MAKAWAO		20 46	156 20	3050	7A	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	A 5004	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL
KULA SANATORIUM 267	A 5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	A 5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLDWALU 296.1	A 7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAKKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	A 7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	A 7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	A 8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUGHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	A 8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	A 8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	A 8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9435	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		8A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL SEE NOTES.	
ISLAND OF HAWAII												
HAIRNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO
HAHALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1333	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			F L BOND
HILO COUNTRY CLUB 86.6	A 1487	02	HAWAII		19 41	155 10	1600					REX WILLIS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID			NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		M1			STATE DIV OF FORESTRY
HONAHUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			THIRTEEN TANKS
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 45	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8100		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 53	1960		7A			HUEHUE RANCH
KAAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIWAHI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					ROSELL F SMITH
KAHUA RCH HTS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 54	2000		8A			FLOYD W MC COY
KALAPANA I 67.8	2894	02	S HILO		19 51	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	33	KA'U		19 02	155 40	1375		WI			KAWAIAHE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	8A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	1140		6A			FORLON RANCH
KAPOHO BEACH 93.11	3368	02	HAWAII		19 40	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 73.5	3369	02	PUNA		19 30	154 52	200		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		19 05	155 39	1000		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 01	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	170					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1500					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 31	5200					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		19 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 35	156 01	30	7A				FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKIAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4918	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA		20 08	155 34	900		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 34	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMUI FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	3615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA		19 40	155 58	1540		7A			KONA EXPERIMENT STATION
MAKAHAU 103	5761	02	HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	14770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIAHE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
NOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAHUAU 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAHULO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO		19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8053	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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HAWAII AND PACIFIC
MAY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-O HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALO BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST
NEW STATIONS												
ISLAND OF MAUI												
KULA HOSPITAL 267	5004	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MAY 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL -SEE NOTES	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	3A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	15		8A			WOLMULI MALUTIA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8F	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 13E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10H	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	40		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 03E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10H			U S L G LORAN STATION
UMATAO	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPHAEL B LINGESON
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SILLIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

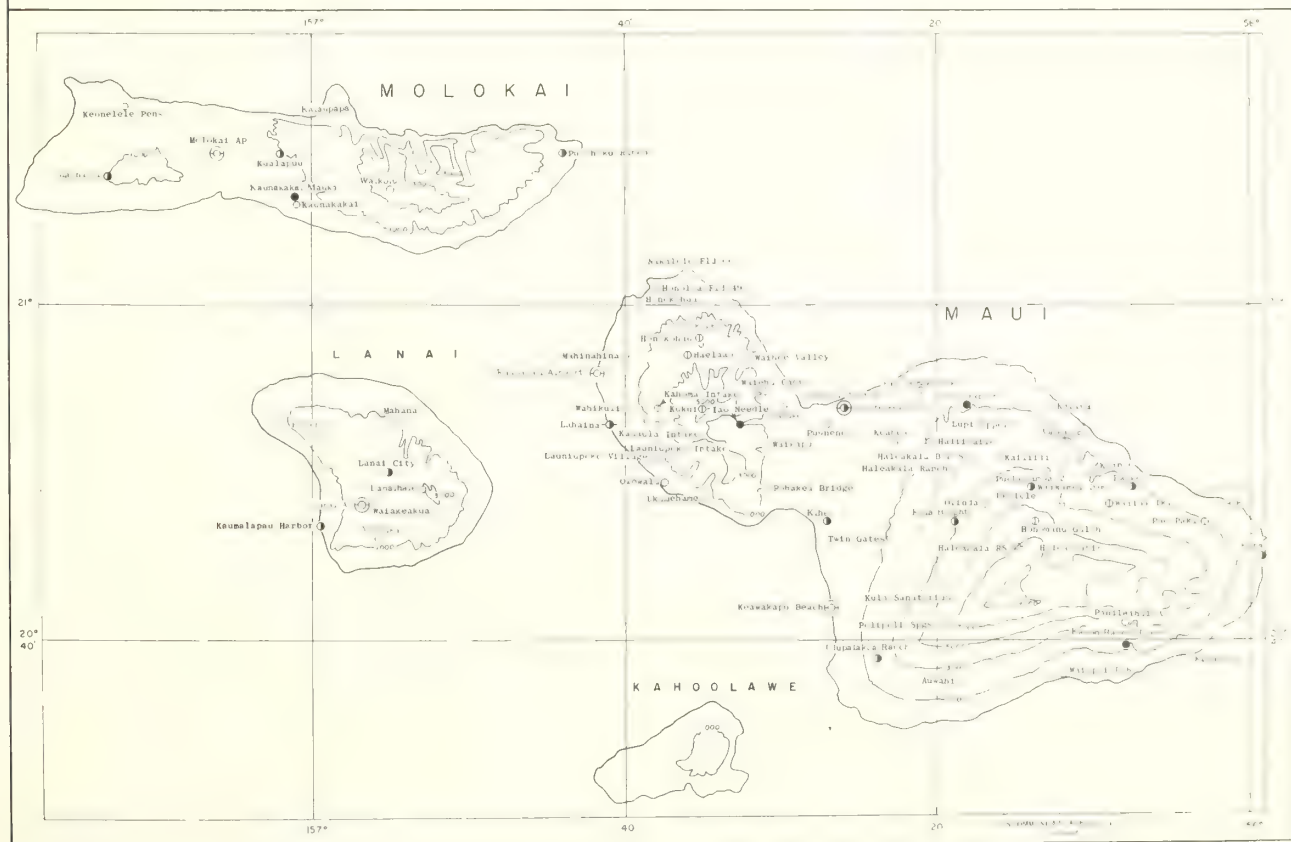
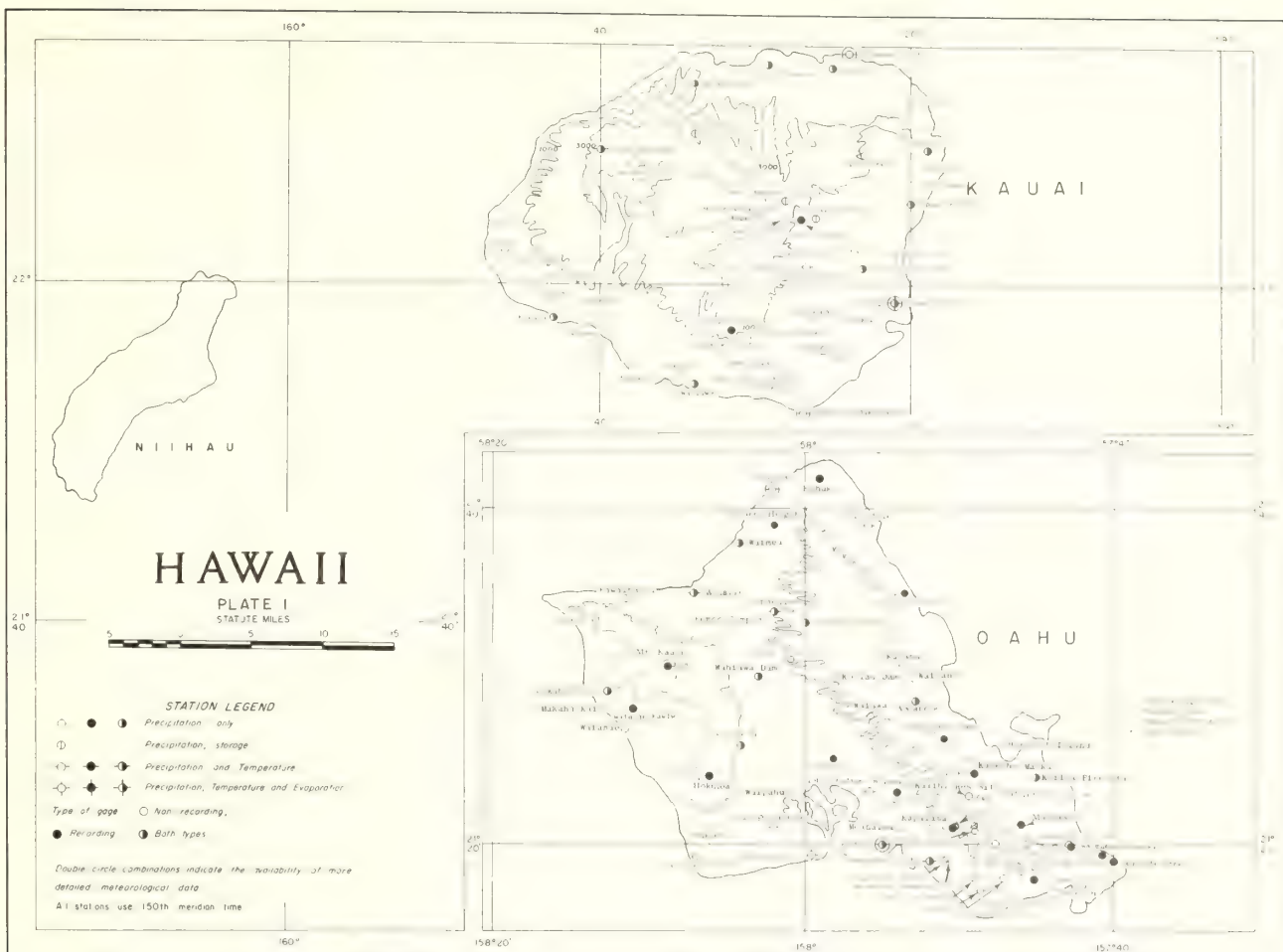
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

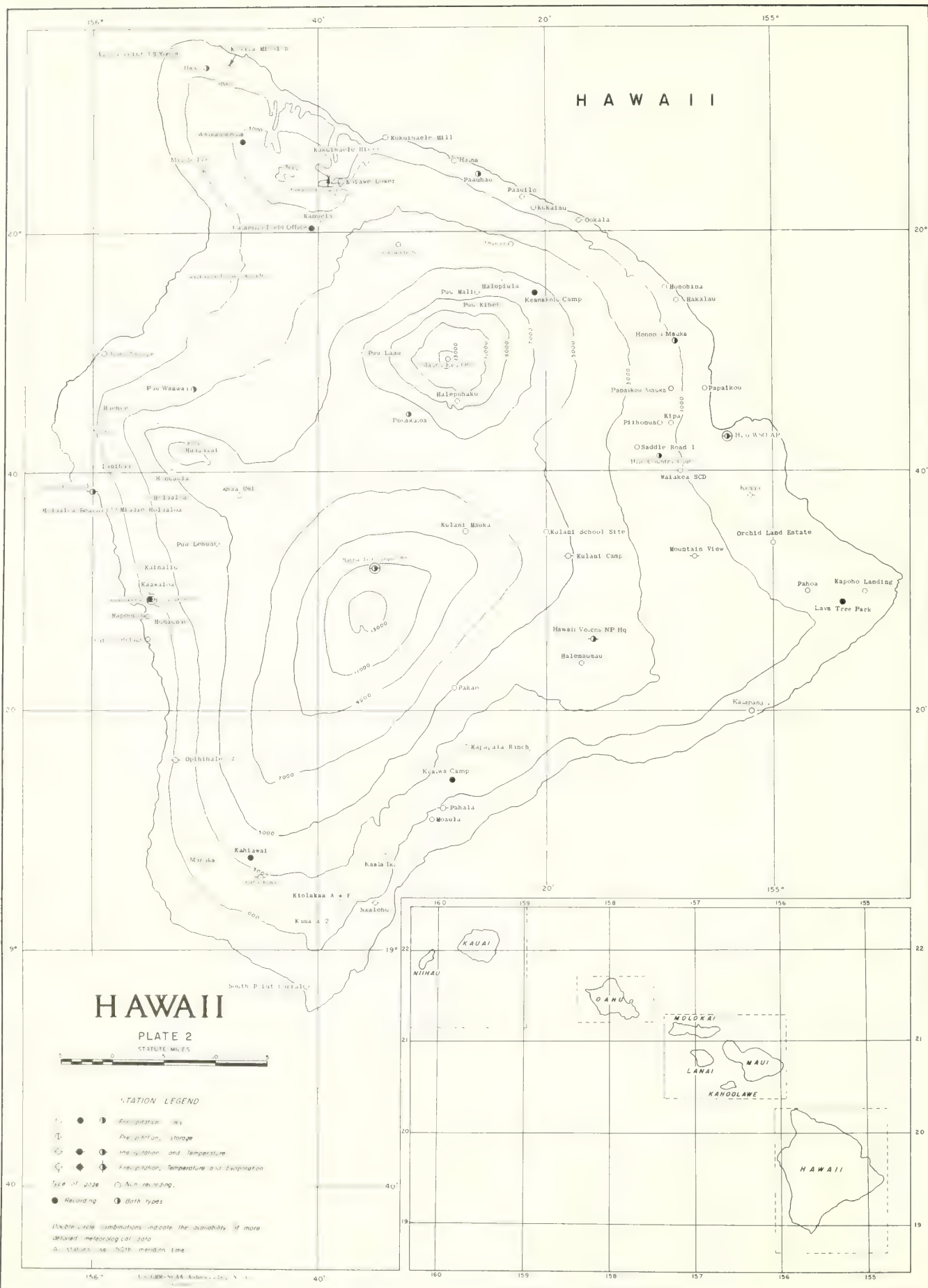
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

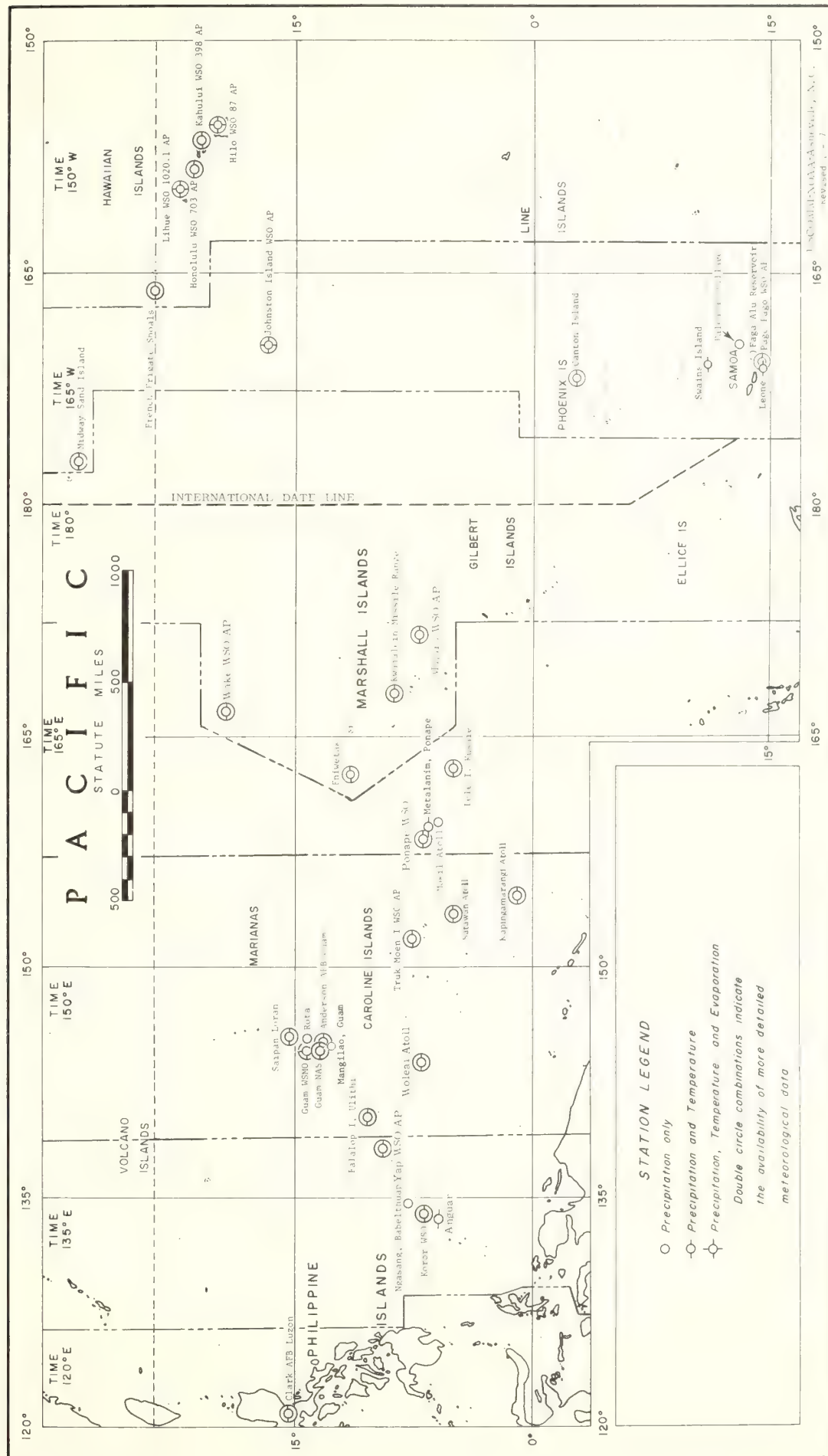
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

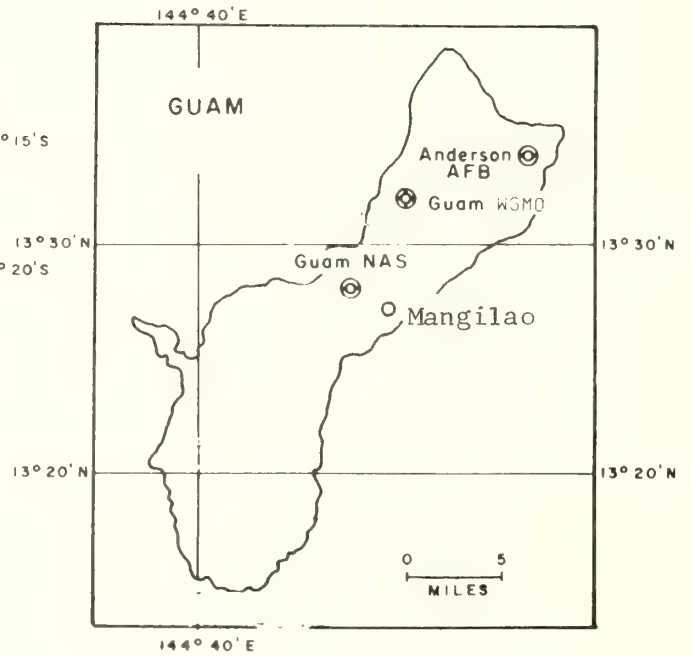
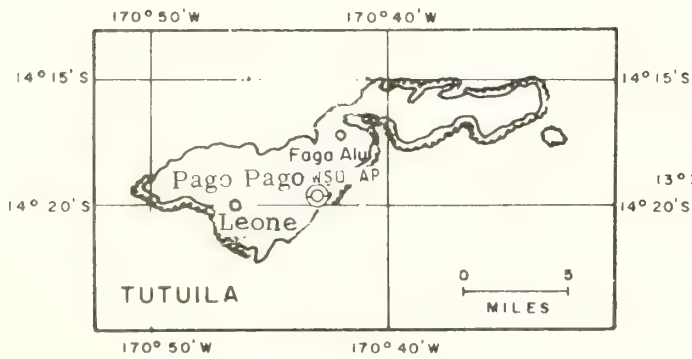
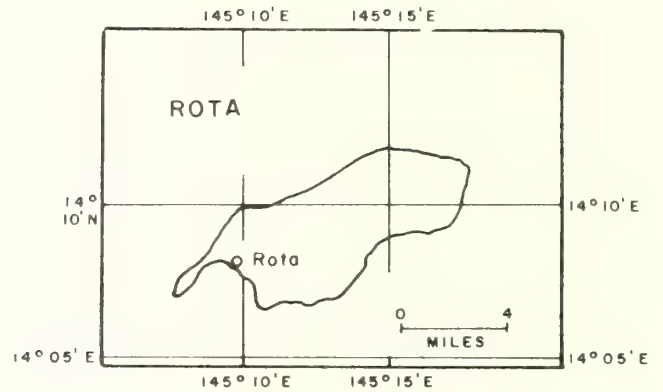
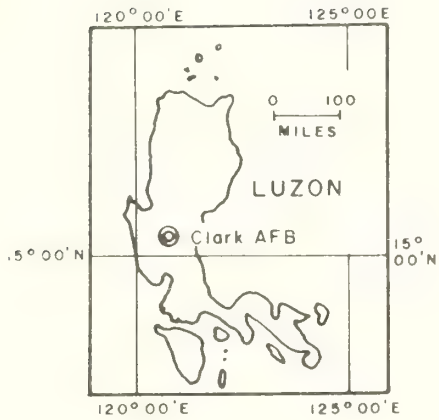
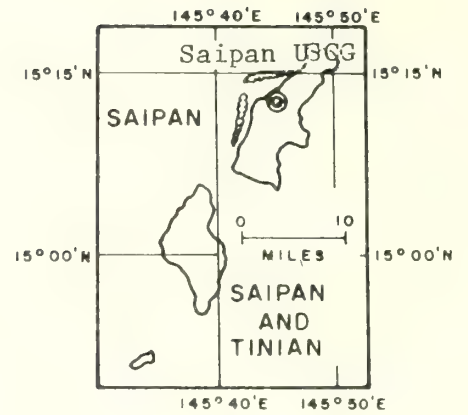
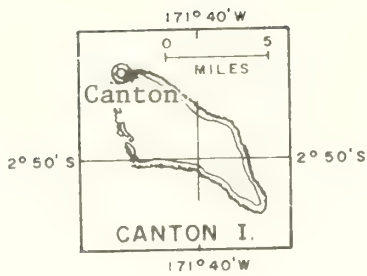
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

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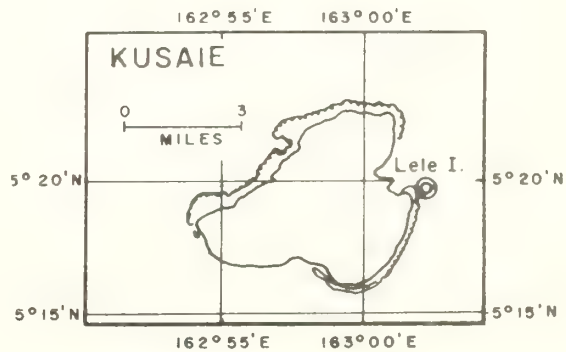
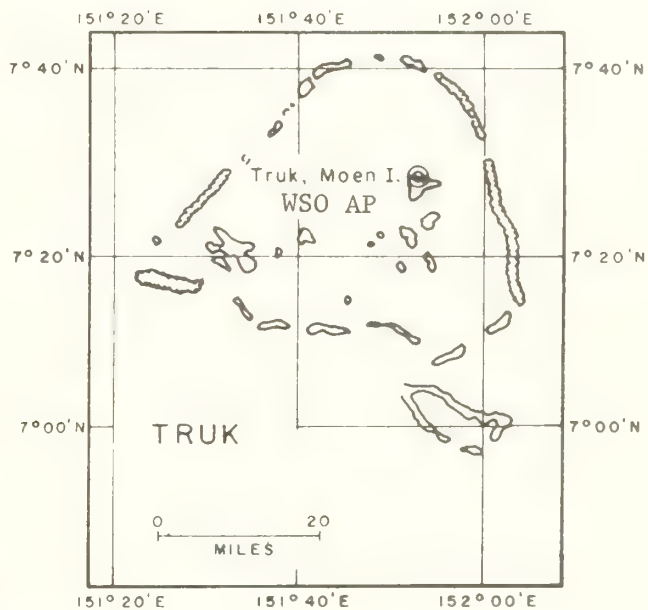
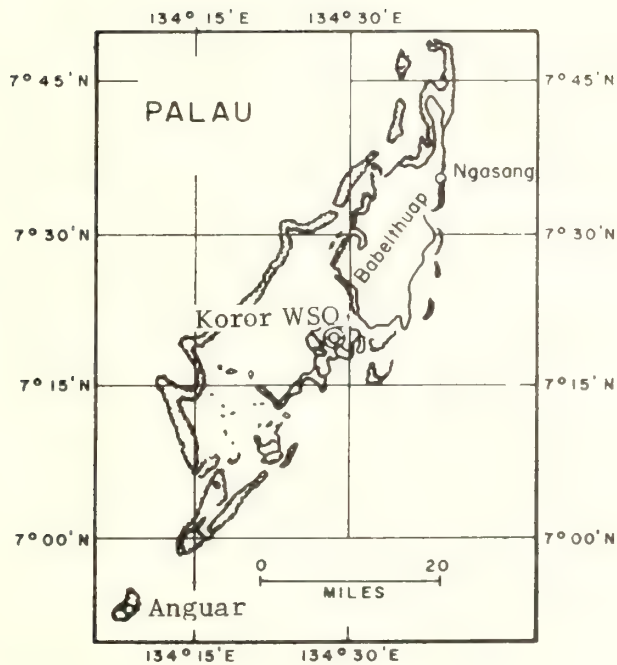
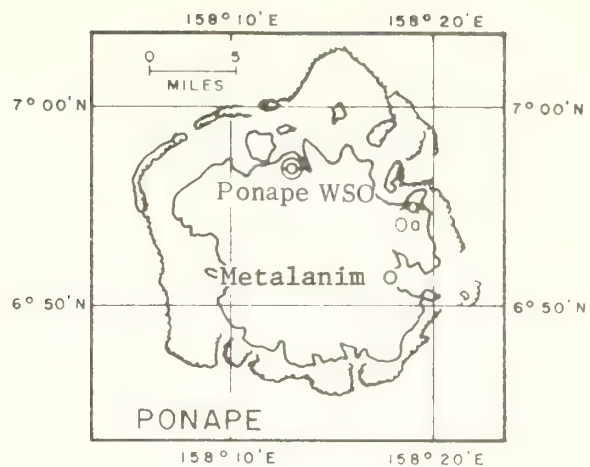
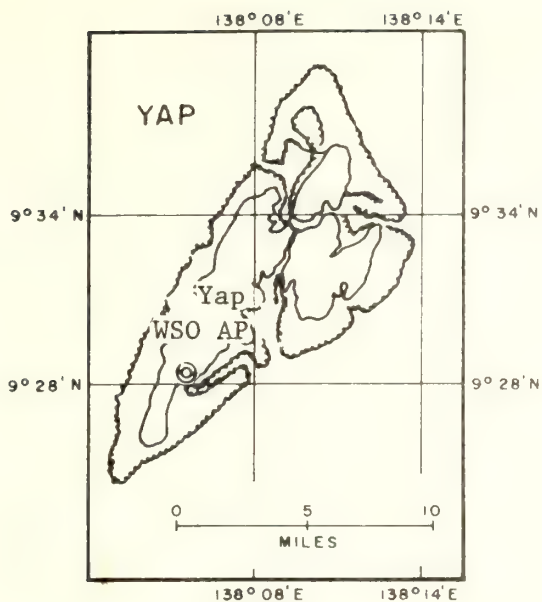




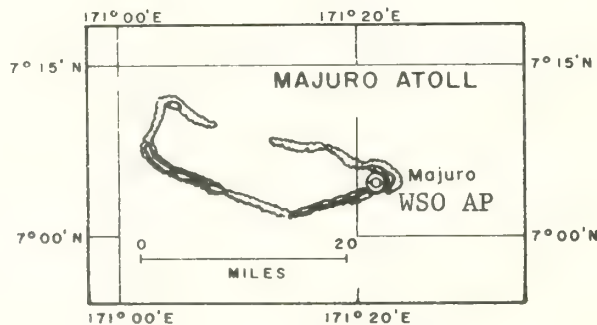
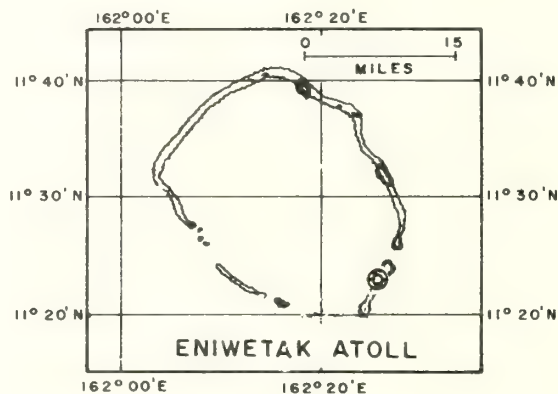
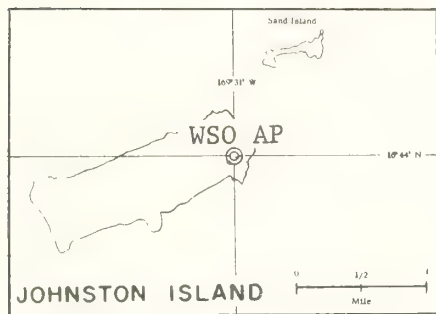
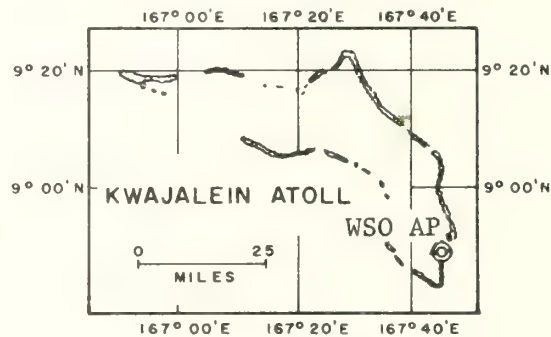
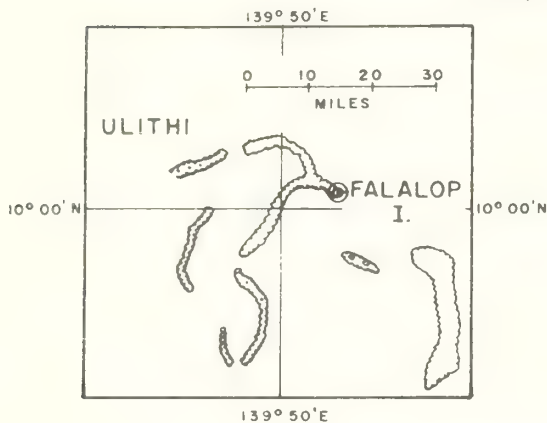
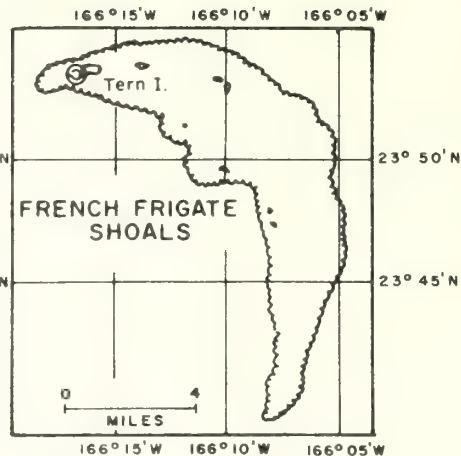
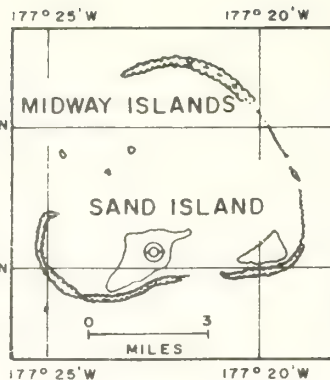
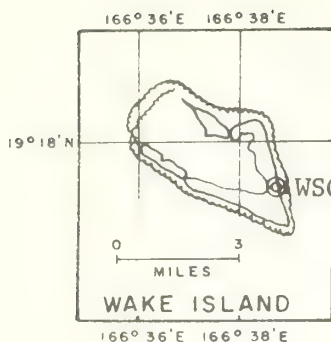




Reef



— Reef



U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE
210



THIRD CLASS
BULK RATE

JUNE 1979

VOLUME 75

NUMBER 6

Climatological Data

HAWAII AND PACIFIC



TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: 2 STATIONS 91 DATE 28+
 LOWEST TEMPERATURE: MAUNA KEA OBS 111.2 HAWAII 24 DATE 21+
 GREATEST TOTAL PRECIPITATION: MOUNT WAIALEALE 1047 KAUAI 45.21
 LEAST TOTAL PRECIPITATION: 12 STATIONS .00
 GREATEST 1 DAY PRECIPITATION: WAIAWA 836 OAHU 9.74 DATE 30

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE TENTHS	SKY OVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSO	-	-	-	25	E	22		74	72	87	0	12	10	2	0	0	24	43	8.2	
HILO WSO 87 AP	10	1.8	5.8	17	E	16	89	83	69	83	2	8	11	4	3	0	28	46	8.5	
HONOLULU WSO 703 AP	7	13.7	14.0	27	NE	24	76	68	51	69	11	8	0	0	0	19	72	6.8		
JOHNSTON WSO AP	9	16.3	16.7	33	E	28+	83	82	76	82	8	12	2	0	0	0	22	84	6.4	
KAHULUI WSO 398 AP	6	14.4	15.2	30	NE	11	-	70	54	71	10	4	0	0	0	14	63	6.0		
KOROR WSO	13	1.4	6.4	24	S	16	90	91	84	80	2	4	11	7	2	4	30	44	9.5	
KWAJALEIN MISSILE RGN	7	14.4	14.9	30	E	21	85	86	77	80	5	11	9	3	1	0	29	-	7.5	
LIHUE WSO 1020.1 AP	6	13.9	14.0	23	NE	23	83	78	66	76	11	8	8	1	0	0	28	68	7.4	
MAJURO WSO AP	8	10.0	12.4	32	E	30	83	84	76	80	4	5	9	7	1	1	28	64	8.6	
PAGO PAGO WSO AP	10	10.8	13.8	37	E	10	87	88	78	85	4	5	9	5	2	0	25	4	7.6	
PONAPE WSO	9	5.2	6.1	19	SE	22	88	88	80	81	0	1	13	6	7	3	30	26	8.9	
TRUK MOEN I. WSO AP	8	6.9	8.2	23	SE	30	83	86	79	80	1	8	7	5	3	3	27	21	9.2	
WAKE ISLAND WSO AP	8	10.9	12.1	25	E	05	82	85	66	71	8	6	5	0	0	0	19	68	3.7	
YAP WSO AP	9	4.9	7.1	23	SE	10		83	80	80	2	3	9	4	7	1	28	55	9.3	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JUNE 1979

STATION		TEMPERATURE										PRECIPITATION															
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.	MIN.	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY					DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	.10 OR MORE	
HAWAII											50° OR MORE	40° OR MORE	30° OR MORE	20° OR MORE	10° OR MORE	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	.10 OR MORE		
ISLAND OF KAUAI																											
KAHOOLAHI 1114		A																									
KANALAHU 1075			69.6	54.3	62.0		73 19	45 7			0	0	0	0		1.27											
KILIMAN POINT 1132			83.1M	71.2M	77.2M		86 8	63 7			0	0	0	0		3.25		1.10	1		.0	0		7	3	1	
KILUAH 546		A									0	0	0	0		1.95		.39	18		.0	0		10	0	0	
LIME WSO AP 1020		A	81.0	71.3	77.2		- .3	86 1	52 7		0	0	0	0		6.18					.0	0					
											0	0	0	0		2.38	.81	.50	28		.0	0		9	1	0	
MAKA 1026																.80		.31	.33	1		.0	0		4	0	0
N. WAILUA DIT 1051		H														16.34					.0	0					
PM. WAILUA 1115																7.60	1.94	1.56	19		.0	0					
PUELO RIDGE 1040																.59	.21	.25	17		.0	0		2	0	0	
WAILUAH 940		H														2.18	.81				.0	0					
WAILUAH LOWER 1054			79.0	64.6	71.8		80 28	59 7			0	0	0	0		13.35	6.32	1.02	17		.0	0		25	12	1	
WAILUAH 947		M									0	0	0	0		.49	.25	.39	17		.0	0		2	0	0	
ISLAND					72.1											4.70					.0						
ISLAND OF OAHU																											
ALOMA STADIUM HALEAKA		M														.84					.0	0			0	0	
B. Y. U. LAIE 903.1			84.2	71.9	78.1		87 7	68 25			0	0	0	0		2.22		.38	19		.0	0		8	0	0	
HONOLULU OBSERV 702.2			87.0	68.5	77.8		89 24	63 8			0	0	0	0		.28		.11	16		.0	0		1	0	0	
HONOLULU WSO AP 703		A	88.1	71.9	80.0		1.1 90 22	65 7			5	0	0	0		.32	.00	.09	16		.0	0		0	0	0	
KANEHOLE HALEAKA 781			80.0	71.2	75.6		- .3	84 1	68 25		0	0	0	0		3.70	1.04	.56	1		.0	0		12	2	0	
KAOI AL. DAM 833		A														17.05		3.55	13		.0	0		20	10	6	
MANOA LION HARBOR TUM			76.8	67.4	72.1		83 1	65 1			0	0	0	0		15.69		1.67	1		.0	0		24	12	6	
NAHANA RES. 4 783																9.38	3.45	1.08	26		.0	0		20	7	1	
OPHEULA 870		A	80.1M	66.5M	73.3M		1.6	86 7	65 26		0	0	0	0							.0	0					
PAOLO VALLEY 718		R														8.00	.33	1.04	13		.0	0				1	
WAIKOLE 837		A														8.63					.0	0					
WAILAEE 896.3			82.7M	72.1M	77.4M						1	0	0	0							.0	0					
WAILUA 847		A	83.9	65.1	74.5		- .9	87 29	61 8		0	0	0	0		.65	.21	.20	13		.0	0		2	0	0	
WAIKIKI 717.2			66.1	66.3M	76.2M		89 9	63 8			0	0	0	0		1.59		.98	16		.0	0		3	1	0	
WAIMANALO EXP. FM 795.1																.54		.12	14		.0	0		1	0	0	
WAIPIHU 750		A														1.38		1.08	1		.0	0		1	1		
ISLAND					76.1											5.02					.0						
ISLAND OF MOLOKAI																											
MOLOKAI AP 524																											
ISLAND																											
ISLAND OF LANAI																											
LANAI CITY 672		A	75.6	63.2	69.4		- 1.1	78 25	60 8		0	0	0	0		.40	-.88	.16	22		.0	0		1	0	0	
ISLAND					64.4											.40					.0						
ISLAND OF MAUI																											
HALEAKALA EXP. FARM 434		A														3.33		.58	23		.0	0		9	2	0	
HALEAKALA R. S. 338			61.8	44.1	54.0		- 2.4	72 30	36 8		0	0	0	0		1.25	.04	.58	22		.0	0		5	1	0	
HANA AIRPORT 355			82.8	69.4	76.1			87 14	67 24		0	0	0	0		3.73		.57	22		.0	0		14	2	0	
HANALEI 493		A														4.22		.40	19		.0	0		0	0	0	
KAHANAE 454 453.1			85.4	68.3	76.9			87 27	63 7		0	0	0	0		.14		.05	12		.0	0		0	0	0	
KAHULUI WSO 398 AP		R	66.7	70.1	78.5		1.4	90 16	62 6		1	0	0	0		.07	.14				.0	0		0	0	0	
KAILUA 446			77.8	64.7	71.3		.7	82 9	58 13		0	0	0	0		9.86	2.76	.03	24		.0	0		0	0	0	
KEANOE 346		A														19.30					.0	0					
KIHAHUA 258																4.79					.0	0		21	0	0	
KULA HOSPITAL 267			72.7	55.8	64.3		.4	79 20	54 24		0	0	0	0		.55	-.86	.25	1		.0	0		2	0	0	
LAHONA 461			86.6	67.7	77.2		.7	89 10	65 21		0	0	0	0		.00	-.09	.00			.0	0		0	0	0	
PAHA 406																1.13	.24	.25	12		.0	0		5	0	0	
WAILUKU 386		A														.17	.26				.0	0		0	0	0	
ISLAND					71.1											3.73					.0						
ISLAND OF HAWAII																											
HAWAII VOLCANO NP HG 54		R	68.0M	53.7M	60.9M		- .8	73 29	50 5		0	0	0	0		8.26	3.59	1.41	24		.0	0				1	
HILLO WSO AP 87			81.3	67.0	74.2		.4	85 8	62 6		0	0	0	0		10.45	3.84	1.79	23		.0	0		18	7	3	
HUEHUE 92.1		H														2.27		.69	15		.0	0		7	1	0	
KAHALU 73.2			78.1	63.7	71.0			81 30	61 16		0	0	0	0		6.51	-.75	.68	14		.0	0		18	4	0	
KAHUO BEACH 451.1			85.2	69.3	77.3			84 15	64 6		0	0	0	0		4.28		.47	22		.0	0		15	0	0	
KEEAU 92																13.09		4.00	26		.0	0					
KILAUEA 1000 1000																7.27	4.31	1.21	27		.0	0		13	8	2	
KILAUEA 1000 7			63.8M	50.4M	57.1M						0	0	0	0		8.24		1.10	24		.0	0		21	6	1	
PAHALA 21		A														.83		.22	2		.0	0		3	0	0	
PUUKOHOLA HETUA 98.1			88.4	66.9	77.7		11 28	61 21			10	0	0	0		.74		.39	1		.0	0		3	0	0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JUNE 1979

STATION	TEMPERATURE										PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEW POINT DATE	NO. OF DAYS	MAX.	MIN.	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS	
																	TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE
HAWAII																				
SOUTH KONA 2.31	73.5	59.1	66.3		85	26	53	5		0	0	0	18.38		1.14	7	.0	3		1
WAIKAEA SCD 88.2													18.28		1.20	6	.0			4
ISLAND			69.4										6.72				.0			11

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JUNE
1979

STATION		TEMPERATURE										PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE	
											32°-34°	35°-36°	37°-38°	39°-40°											
PACIFIC																									
EAST OF 180TH MERIDIAN																									
ANTON ISLAND		88.9H	75.6H	82.3H				71	23		0	0	0	4.74		1.48	23		0			3	2		
FALEKRAO VILLAGE														27.86		2.71	14		0		25	18	12		
ANTON IS. WSO AP		84.2	75.8	80.0	- .2	85 30+		72	13+		0	0	0	.85	- .18	.19	11		0		2	0	0		
FRENCH FRIGATE SHOALS																									
MIDWAY SAND ISLAND		81.3	71.5	76.4	.7	85 11	67	8			0	0	0	1.51	- 1.45	.83	12		0		3	1	0		
MALAELAO														12.76		4.00	27		0		17	9	2		
FAHO FAHO WSO AP		85.4	76.7	81.1	2.0	89 4	72	6			0	0	0	7.86	- 1.55	1.56	12		0		16	7	2		
WESTERN PACIFIC ISL. NORTH OF 12°N																									
AGAT														3.93		.80	25		0		12	4	0		
ANDERSEN AFB GUAM		84.8	78.4	81.6	.8	87 12	75	29			0	0	0	1.72	- 2.92	.59	25		0		5	1	0		
CLARK AFB LUZON		84.5	77.0	83.3	1.4	94 9+	74	4+			17	0	0	3.82	- 7.07	.81	24		0		10	2	0		
DEDEA														3.18		.64	25		0		14	1	0		
GUAM NAS		89.2	77.8	83.5	1.7	91 19+	75	29+			15	0	0	2.61	- 2.30	.72	12		0		7	2	0		
GUAM WSO																									
INARAJAN AG STN		87.2	75.0	81.1	1.3	90 16	73	25+			1	0	0	4.28	- .91	.86	25		0		12	2	0		
INARAJAN - NASA														5.13		1.02	24		0		15	2	1		
MANGILAO		87.6	71.9	79.8		89 25+	70	19+			0	0	0	2.53		.53	25		0		8	1	0		
ROTA														3.16		.77	25		0		9	2	0		
SHIPAN LORAN																									
IMATAO																									
WAKE ISLAND WSO AP		88.8	77.7	83.3	1.8	91 30+	75	29+			9	0	0	1.52		.54	21		0		4	1	0		
WFO														1.50		.47	24		0		5	0	0		
														4.15		.83	25		0		9	2	0		
CAROLINE AND MARTIN ISLANDS																									
ENIWEATOK																									
FALALOP I ULITHI ATOLL																									
KAPINGMARANGI ATOLL																									
KAKOR WSO		87.0	75.0	81.0	.6	91 7	73	29+			7	0	0	22.84		3.09	16		0		24	13	6		
KWAJALEIN MIDDLE RGN		86.9	77.8	81.4	.5	88 29+	75	28+			0	0	0	5.19	- 3.74	1.53	20		0		13	4	1		
LELE I KOSRAE																									
MALURO WSO AP		86.7	76.3	81.5	.5	88 20+	72	30+			0	0	0	13.23		1.06	3.55 8		0		18	9	2		
METALANTH																									
MUSANG BABELTHURF																									
PONAPE WSO		88.0	75.3	81.7	1.2	91 20+	72	25+			5	0	0	23.85		8.19	2.73 26		0		29	16	10		
PATAWAN ATOLL																									
TRUK MOEN I WSO AP		87.5	77.1	82.3	1.0	91 11	74	28+			3	0	0	19.02		6.43	3.80 8		0		18	11	6		
WOLEAI ATOLL																									
WFO WSO AP		87.7	75.0	81.4	- .3	90 6	73	28+			1	0	0	21.07		10.17	2.48 28		0		23	14	10		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

$$\frac{d\langle H \rangle}{dt} = -\frac{\langle H^2 \rangle}{Nf} + \frac{\langle H \rangle^2}{Nf} + \frac{\langle H \rangle}{Nf} \left(\frac{dN}{dt} - \frac{dM}{dt} \right)$$
SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
JUNE 1979SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HALEI AND PACTI
1978

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HALEI																																
BAKALA 223		11.75																														
ORIHIALE 2 24 1		3.41	.64	.04	.24																											
OWCHID LAND EST 91 5		13.30	.85																													
PARAHUA 217		5.00																														
PARUHO 221		9.75																														
PANALA 21		.83	.07	.27																												
PANUA 65			.14																													
PAPAIKOU 144 1		12.74	.02																													
PAPAIKOU MAUKA 140 1		20.87	.30																													
PELEHONUA 89																																
PULOHUA HEIAU 98 1		.74	.39	.24																												
PULOHUA 73		2.05																														
PELEHONUA-O-HONALUAU		3.19																														
SOUTH KONA 2 31		.38																														
UPOLU POINT USCG 159 2		1.27	.02	.05	.70																											
WAIKAKA SCD 88 2		18.28	1.01	.84	.11	.04																										
WAIKALEHA-BOIS CRS 95 8		1.18																														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JUNE 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
K K K																																	
THAT OF 180TH																																	
MERIDIAN																																	
AT 1																																	
CANTON ISLAND	4.74																																
FALCASO VILLAGE	27.85	19	23	16																													
FAUNSTON IS. WSO AP	05	01	02																														
FAUNSTON FREIGHT STATION																																	
MIDWAY SAND ISLAND	1.51	24																															
MAHEHA	12.76	21	12																														
FAHO WSO AP	7.86	42	15																														
K K K																																	
WESTERN IS. 171 15.1																																	
NORTH OF 12 N																																	
AGAT	3.93																																
ANTILLES AFB GUAM	1.12	27	33																														
CLARK AFB LUZON	3.82	22																															
DEGILO	3.38	07	05	01																													
EL AM NAS	2.53	23	27																														
GUAM WSO	4.28	01	27																														
INABURAN AG STN	5.13																																
INABURAN - NASA	2.53																																
MANILA	3.16																																
ROTA																																	
SALAMAN LORAN																																	
WAKA	1.52																																
WAKA ISLAND WSO AP	1.50																																
WAKA	4.15	02	40																														
K K K																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENNEWATAK																																	
FAALAP I. ULITHI ATOL.																																	
KAPINGAMARANGI ATOL.																																	
KOROR WSO	22.84	31	1	17																													
KWADREIN MISSILE REN	6.15	27	28	46																													
ULITHI KOSARE																																	
MAJURO WSO AP	17.23																																
META ANIM																																	
NOBILANG BARETHARE																																	
PONAPE WSO	23.85	25	22	13																													
SATURN ATOLL																																	
TAKU MOEN I. WSO AP	19.02																																
WOLERI ATOL.																																	
YAP WSO AP	21.07																																

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PARTIAL
JUNE 1979

STATION		DAY OF MONTH																															Ave. of 31 Days
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
• • •																																	
ISLAND OF KAUAI																																	
KANALOHULU HJL 1075	MAX MIN	69 50	70 53	71 55	72 54	73 54	70 45	77 45	70 50	70 55	69 55	68 56	69 55	69 56	70 55	70 58	70 56	71 55	73 58	71 58	70 55	70 57	69 55	65 56	66 56	64 54	70 50	66 50	61 50	70 50	69 50	69.6 54.1	
KILAUEA POINT 1133	MAX MIN	85 74	85 74	84 72	84 72	85 72	84 69	86 71	84 70	82 70	82 71	82 71	83 71	83 72	81 71	81 71	82 72	84 72	81 70	81 71	83 71	84 71	83 72	82 71		84 71	83 71	84 71	84 71	81 71	81 71	83.7 70.2	
KOLOA LN (HAK) 940.1	MAX MIN																																
LIMUE WSO AP 1020.1	MAX MIN	96 68	85 71	85 72	84 72	82 72	84 71	82 62	84 73	82 72	82 71	84 71	83 72	82 71	83 72	84 73	82 73	82 73	84 73	82 73	84 73	82 71	85 71	84 72	83 72	82 73	82 72	81 71	81 73	81 73	81 75	81.0 71.3	
NIU RIDGE 1035	MAX MIN	83 63			86 61	85 62	84 62	84 60	84 62			87 62	85 64	85 63	86 63					86 62	88 65	88 67	88 63	84 64		88 61	86 61	85 61	88 63	81 64	81 64	85.5 62.7	
WAIHAI LOWER 1054	MAX MIN	78 63	80 63	79 65	80 64	79 62	80 61	80 59	80 60	80 64	79 65	80 66	79 66	78 65	78 64	79 65	78 66	78 67	79 65	80 66	79 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78.0 64.6	
WAIKAE 947	MAX MIN	84 68	86 67	86 65	86 65	87 65	86 61	85 62	85 63	86 66	87 67	85 63																					
• • •																																	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	89 67			85 67	84 72	85 72	84 67	85 67				85 70	83 70	83 71	84 72				85 71	83 72	85 72	83 72	84 72		86 71	83 70	84 69	82 74	85 74			
BAY LAKE 903.1	MAX MIN	85 72	85 74	85 71	85 73	85 73	85 74	87 68	85 74	85 72	85 71	84 71	83 70	84 72	84 71	84 74	85 74	83 72	84 71	84 70	84 71	84 71	84 72	84 71	84 71	83 73	83 73	83 72	84 72	84 74	84.2 71.9		
HONOLULU OBSERV 702.2	MAX MIN	85 64	87 65	87 65	86 64	87 63	87 63	87 63	85 63	87 68	87 68	87 68	87 68	85 68	88 68	87 68	88 68	88 68	87 68	88 68	87 68	88 68	87 68	87 68	87 68	87 68	87 68	87 68	87 68	87 68	87 68	87.0 68.5	
HONOLULU WSO AP 703	MAX MIN	90 68	88 73	89 72	87 71	87 71	84 72	85 65	84 72	88 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87 72	87.1 71.9	
KANEHE MAUKA 781	MAX MIN	84 72	82 69	80 71	80 72	80 71	81 70	81 71	81 72	81 71	79 72	79 72	78 71	78 71	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78 72	78.0 71.2	
MANOA LYON ARBORETUM	MAX MIN	83 65	80 67	78 67	78 68	77 68	77 68	81 69	80 69	80 68	73 67	73 66	75 66	71 67	73 67	78 67	75 67	74 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75 67	75.8 67.4	
OPAEULA 870	MAX MIN	86 67	78 65	77 65	78 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84 68	84.1 68.5	
WAIALEE 896.3	MAX MIN	81 71	82 70	83 72	81 69	84 74	83 73	83 72	84 73	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83 72	83.7 72.1	
WAIKALUA 847	MAX MIN	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86 64	86.1 65.3	
WAIKIKI 717.2	MAX MIN	87 63	88 64	88 68	86 69	87 63	87 63	88 63	88 63	88 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87.1 65.3	
WAIMANALO EXP FM 795.1	MAX MIN																																
• • •																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
• • •																																	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN	77 63	76 64	76 64	77 64	77 60	76 61	75 62	75 60	74 64	75 64	75 64	77 64	77 64	77 64	76 63	77 62	77 64	75 64	74 64	75 64	74 64	74 64	74 64	74 64	74 64	74 64	74 64	74 64	74 64	74 64	75.6 63.2	
• • •																																	
ISLAND OF MAUI																																	
HOLEKALU R S 338	MAX MIN	56 40	62 41	63 43	69 53	69 44	65 40	63 37	59 36	59 39	58 45	66 50	68 43	65 42	62 39	61 42	59 40	62 39	65 47	71 47	70 49	70 49	70 49	70 49	70 49	70 49	70 49	70 49	70 49	70 49	70 49	63.8 44.1	
HANA AIRPORT 355	MAX MIN	84 70	84 67	82 67	84 70	85 69	85 67	84 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85 68	85.4 69.4	
KAANAPALI AP 453.1	MAX MIN	84 65	85 67	85 68	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85 69	85.4 69.4	
KAHULUI WSO 398 AP	MAX MIN	89 65	87 72	84 70	86 70	86 69	85 68	86 68	88 68	85 71	87 73	86 73	86 72	89 72	86 71	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	89 72	86.7 70.2	
KAILUA 446	MAX MIN	80 66	78 69	78 68	77 69	78 71	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	77.8 64.7	
KEAWAKAPU BEACH 260.2	MAX MIN	84 65	88 65	88 64	87 64	88 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	87 63	88.3 65.3	
KULA BRANCH STN 324.5	MAX MIN	72 55	71 56	72 55	72 54	73 54	72 53	73 54	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72 53	72.8 55.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JUNE 1979

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
KILAUEA HOSPITAL 167	MAX MIN	78 58	73 56	71 59	71 58	72 53	71 54	72 56	69 58	71 55	70 54	74 55	72 58	74 55	72 55	73 55	74 56	72 55	75 57	79 55	74 54	71 57	72 56	72 53	72 54	72 56	73 56	72 57	72 59	73 57			72.7 55.8
KAUNOA BEACH 14.1	MAX MIN	86 65	87 68	87 66	87 67	87 65	87 65	88 65	88 69	89 69	87 71	86 69	87 66	85 67	87 66	87 70	87 69	88 71	86 67	85 65	86 65	86 67	88 67	87 67	86 70	86 68	87 67	88 68	83 69	83 72			86.6 67.7
ISLAND OF HAWAII																																	
HAWAII VOLCANO HQ 54	MAX MIN	69 55	70 52	70 51	69 53	70 50	69 51	64 53	68 53	70 53	67 53	60 57	63 56	63 55	66 52	68 53	70 55	65 55	68 55	69 57	70 52	70 52	71 54	66 54	65 53		70 54	70 54	69 52	73 57	69 55		68.0 53.7
HILAWA OBS 87	MAX MIN	81 67	78 64	81 63	81 66	82 63	82 62	83 66	85 67	80 63	82 68	81 69	80 68	83 68	83 67	84 67	81 67	79 67	80 68	81 68	82 65	81 67	78 67	81 68	81 65	81 67	82 68	80 67	79 69	80 70	81 71		81.3 67.0
KAINALOA 73.2	MAX MIN	78 64	79 64	78 63	77 64	77 65	75 62	76 62	76 62	79 62	76 64	78 64	78 63	78 64	81 63	80 61	77 63	76 63	80 64	77 65	79 62	81 63	81 65	81 63	81 62	81 65	81 64	81 64	81 67	81 65	81 67		78.2 63.7
KAMUEA 120.2	MAX MIN	75 54	75 58	72 58	73 59	70 58	75 59	76 58	76 59	76 60	74 59	74 60	73 60	75 61	77 60	79 61	76 60	75 61	72 60	69 58	75 60	73 60	71 58	70 58	73 60	72 60	72 63	72 63	70 61	68 64			73.6 60.1
KAPAHU BEACH 14.11	MAX MIN	87 69	87 66	79 68	82 68	85 67	87 64	86 69	89 66	89 68	85 69	85 72	85 73	88 71	89 68	87 70	88 67	84 67	82 72	85 67	84 68	84 69	85 70	83 72	83 70	85 71	86 70	81 71	85 73	86 74			85.2 69.3
KONA KAILUA BEACH	MAX MIN																																
KULANI CAMP 79	MAX MIN																																
MAUNA KEA OBS 111.2	MAX MIN	53 37	53 32	53 36	54 34	56 40	52 34	54 29	52 31	55 29	54 30	54 29	55 32	54 35	54 33	55 34	55 33	53 30	48 25	47 24	50 24	47 25	46 30	50 30		51 25	51 25	51 28	52 34	43 34			52.1 30.2
MAUNA LOA SLOPE OBS	MAX MIN	48 35	52 35	57 37	55 37	58 41	55 40	58 40	53 37	56 38	59 40	58 42	55 40	55 37	56 39	56 38	57 38	58 41	56 41	56 39	55 37	55 36	54 34	51 35	53 34	52 35	57 38	58 40	58 42	53 43			55.4 38.3
MOUNTAIN VIEW 11	MAX MIN	79 61	79 60	77 60	77 59	77 60	76 59	77 58	77 61	77 60	74 60	76 61	74 62	73 62	77 61	78 62	76 62	78 62	74 62	76 61	79 61	75 62	74 63	76 62	71 63	75 62	78 63	77 64	72 64	75 64	76 63		76.1 61.3
NAHOLE 14	MAX MIN	80 65	75 61	75 61	79 62	78 62	78 62	78 64	79 63	75 62	73 62	78 66	80 62	78 65	77 65	79 65	73 64	80 64	78 66	75 64	79 64	80 65	77 64	75 63	80 65	80 64	80 65	79 66	81 66	75 67			77.6 64.0
PAHOLE 14	MAX MIN	81 65	81 66	81 66	80 67	86 67	80 67	80 65	80 66	81 66	79 66	80 66	78 66	79 66	80 66	80 68	81 68	80 68	80 68	76 66	78 68	79 67	77 67	77 65	76 67	80 67	77 65	79 67	81 67	81 70			79.5 66.8
OPIHIHALE 2 24.1	MAX MIN	78 60	79 61	80 61	79 62	77 61	77 59	77 59	77 59	77 62	80 62	76 62	79 63	77 63	77 63	78 63	77 63	81 63	81 61	80 59	81 61	81 59	80 59	80 59	80 59	81 59	81 60	80 62	83 62	80 65	78 65		79.3 60.8
PAKOHOLA HEIGHT 96.1	MAX MIN	86 69	88 67	86 68	87 70	83 69	87 67	83 67	87 67	87 68	88 66	88 65	90 72	88 79	89 69	88 71	88 69	89 70	88 70	91 67	91 67	90 66	91 68	91 68	89 67	90 67	90 66	91 67	89 67	90 73			88.4 68.9
SOUTH KONA 2-31	MAX MIN	74 60	71 57	73 54	78 60	70 53	72 58	68 59	72 58	77 57	70 61	72 56	70 61	73 60	70 58	77 60	72 61	74 61	73 60	73 59	77 60	75 59	77 60	77 59	73 59	85 61	77 57	74 61	79 62	76 61			73.5 59.1
UPOLU POINT USCG 159.2	MAX MIN	86 69	86 66	85 70	85 69	84 68	84 68	85 64	84 67	84 69	82 68	83 68	83 68	82 65	83 71	84 70	85 70	83 63	82 57	83 67	84 69	85 69	85 67	81 71	82 68	83 67	83 69	80 68	81 67	80 66			83.3 68.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
JUNE 1979111

EVAPORATION AND WIND

HAWAII AND PACIFIC
JUNE 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
TIME 1500 AP JUL 1	EVAP	.44	.38	.44	.40	.46	.46	.38	.41	.37	.40	.34	.36	.41	.36	.30	.30	.31	.38	.30	.31	.38	.33	.35	.33	.43	.30	.42	.38	.20	.30	10.93	
	WIND	71	190	232	221	196	184	146	163	162	241	243	268	295	252	214	208	183	246	256	229	244	232	246	270	263	255	252	241	214	228	6645	
	MAX	84	88	85	81	83	82	84	85	85	82	82	82	82	82	83	84	86	86	86	81	82	82	84	85	81	80	79	82	82	79	82	82.8
	MIN	63	67	65	64	63	64	61	61	65	64	64	64	64	65	64	66	66	64	67	65	64	64	65	63	63	64	63	65	66	67	64.3	
ISLAND OF OAHU																																	
HONOLULU OBSERV. STATION	EVAP	.38	.45	.60	.60	.49	.60	.60	.45	.45	.50	.48	.50	.63	.31	.60	.41	.45	.56	.65	.63	.60	.60	.66	.71	.75	.60	.60	.75	.45	.65	16.71	
	WIND	63	14	37	24	27	27	25	35	29	45	30	38	37	35	31	32	21	29	34	32	31	29	34	35	37	27	29	29	25	25	906	
	MAX	94	44	90	88	88	87	87	75	86	90	88	89	90	88	88	85	83	86	90	86	86	87	90	90	86	89	91	89	91	86	88.0	
	MIN	66	66	65	65	64	64	64	63	64	65	66	66	65	65	65	64	67	66	66	67	65	65	70	65	65	64	65	65	67	69	65.4	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JUNE
1979

STATION	DAY OF MONTH																															TOTAL 31 DAY	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.18	.32	.35	.33	.34	.29	.42	.34	.41	.36	.27	.23	.39	.32	.35	.35	.38	.36	.42	.39	.33	.19	.33	.26	.39	.27	.34	.39	.14	.45	9.89	
	WIND	115	157	181	148	132	143	143	145	217	178	148	159	232	204	176	163	163	190	190	200	216	204	222	199	173	204	194	16	204	175	5393	
PAGO PAGO WSO AP	EVAP	.23	.24	.27	.19	.17	.17	.23	.19	.09	.42	.14	.00	.14			.22	.24	.12	.15	.40		.21	.25	.13	.09	.18		.13	.16	5.838		
	WIND	184	145	90	22	29	125	214	4	429	206	223	126	191	211	179	172	133	78	34	46	132	170	204	222	186	164	36	58	27	42938		
	MAX	90	92	93	94	95	92	95	86	89	85	86	87	88	87	89	88	89	93	95	90	91	91	91	90	91	92	92	91	90	90.5		
	MIN	78	77	77	73	77	77	72	74	78	75	75	75	77	67	75	77	76	74	75	72	73	75	77	79	73	74	72	74	74	75	74.9	
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.20	.27	.32	.33	.24	.25	.28	.28	.18	.38	.29	.22	.25	.30	.26	.30	.29	.21	.14	.29	.35	.29	.27	.31	.34	.19	.30	.31	.16	.24	8.44	
	WIND	51	113	107	148	158	157	142	180	136	180	137	147	121	140	135	100	113	121	131	164	185	180	164	138	116	106	115	132	155	142	4116	
	MAX	93	87	90	85	86	86	87	87	88	88	86	85	85	88	89	88	89	87	89	87	88	85	89	88	87	84	89	90	85	88	67.4	
	MIN	73	75	70	69	70	70	70	72	70	69	70	72	73	70	71	70	70	70	71	72	63	71	71	71	70	71	70	70	72	70	70.7	
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	.23	.21	.17	.28	.04	.21	.19	.23	.21	.22	.20	.11	.06	.17	.14	.26	.24	.29	.16	.14	.22	.07	.25	.28	.11	.12	.29	.22	.15	.26	5.90	
	WIND	41	31	36	89	81	102	71	99	68	88	117	77	33	75	60	78	63	67	82	92	98	65	84	64	40	22	33	64	70	53	2009	
	MAX	98	97	94	95	94	94	89	96	94	95	90	85	84	88	91	97	92	97	92	92	92	93	92	93	91	82	91	90	93	88	91.8	
	MIN	78	78	77	76	75	75	75	75	76	75	75	75	75	74	76	76	76	76	76	76	76	76	76	75	75	76	75	74	75	75	77	75.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JUNE 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYCESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN MAK 940.1	4748	C1	KAUAI		21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU		22 11	159 23	560		8A			PRAWNS OF HAWAII INC
KOKOILUA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	A 5563	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIJ RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250	5A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUEHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIAMI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIAMI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PA 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	C1	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLO 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	C3	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0564	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAEANA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEHE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	355	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240					NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	200		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		5A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO		21 35	157 54	20					NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690		8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1415		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854					WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAUPOKO		21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A			WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			BEN MAYES
WAIKANA 836	A 9261	03	EWA		21 28	157 56	400		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120					U H WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330					WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KUALAPUU 534	A 4778	01	MOLOKAI		21 04	157 02	825					DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070					MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LANAI		20 52	157 00	1650		WI			U S D A
KAUNALAPUU HARBOR 658	3461	01	LANAI		20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LANAI		20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LANAI		20 50	156 55	1620	7A	7A			DOLE COMPANY
LANAIHALE 684	A 5301	01	LANAI		20 49	156 53	3370		WI			U S D A
MAHANA 694	A 5704	01	LANAI		20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LANAI		20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LANAI		20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AWAHI 252	H 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMALE 425	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	H 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KARNAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI W50 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	H 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4484	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 256	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	H 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	7A	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5438	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	H 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA		20 45	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEE BRIDGE 307.1	H 8060	03	WAILUKU		20 49	156 31	157		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	H 8742	03	MAKAWAO		20 46	156 23	1310					KAOHOLU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	H 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	H 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	H 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	H 9376	03	WAILUKU		20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	H 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	H 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAILOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	H 0040	05	N. KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	0150	02	HILO		19 44	155 09	1490		8A			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL USE NOTES	
ISLAND OF HAWAII												
HAKALAU 142		0905	02	S HILO	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03	KA'U	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02	HAMAKUA	19 46	155 28	9220		4P			MAUNA KEA OBSERVATORY
HAWAII VOLCONS NP HQ 54		1303	02	KA'U	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01	N KOHALA	20 14	155 50	580		6H			K L BOND
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	19 41	155 10	1600					REX WILLIS II
HILO WSO AP 87	R	1492	02	S HILO	19 43	155 04	36	MID	MID			NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04	N KONA	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HONAHUNAU 27		1665	04	S KONA	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02	N HILO	19 55	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02	S HILO	19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A	2047	04	N KONA	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALO 29	A	2327	04	SOUTH KONA	19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIWAI MAUKA 3.8		2512	03	KA'U	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01	HAWAII	20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04	KONA	19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04	N KONA	19 32	155 56	1503	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04	HAWAII	19 44	155 54	2000		8A			FLYD W MC CRY
KALAPANA 1 67.8		2894	02	S HILO	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03	KA'U	19 02	155 47	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2		3077	01	S KOHALA	20 01	155 40	2670		6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03	KA'U	19 17	155 27	214		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02	HAWAII	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02	PUNA	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02	PUNA	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03	KA'U	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04	S KONA	19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	19 55	155 21	5080					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A	4625	03	KA'U	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KOHALA MISSION 175.1		4680	01	N KOHALA	20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	20 05	155 38	70		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04	N KONA	19 39	156 01	30	7A				FAA
KONA VILLAGE 93.8		4765	04	N KONA	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA	20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02	S HILO	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILLO FLD OFF 191.1		5260	01	S KOHALA	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAA 68.2		5330	04	N KONA	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103		5761	02	HAWAII	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03	KA'U	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02	HAWAII	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01	N KOHALA	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A	6407	03	KA'U	19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91		6552	02	PUNA	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KA'U	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A	6697	04	S KONA	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02	N HILO	20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02	PUNA	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217		7204	01	HAMAKUA	20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAUULO 221		7312	01	HAMAKUA	20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03	KA'U	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02	PUNA	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02	PUNA	19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1		7711	02	S HILO	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1		7721	02	S HILO	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02	S HILO	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A	8063	02	HAMAKUA	19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04	N KONA	19 34	155 49	4880		MO			W H GREENWELL RANCH

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JUNE 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKAKA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALO-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST
NEW STATIONS												
ISLAND OF MAUI												
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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HAWAII AND PACIFIC
JUNE 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P		NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	2		8P	8A		U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P		NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 24N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P		NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAD	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	4	10A	10A			U S C G LORAN STATION
UMATAO	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID			NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	01	CAROLINE IS		10 21N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID			NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M			KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID			NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID			NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		9 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID			NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P		NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC

Station	Temperature											Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.		Min.						Total	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More
										90° or Above	80° or Above	70° or Above	60° or Above	50° or Above										
HAWAII																								
* * * JANUARY 1979																								
HONOKOHUA 493														14.85			.0	0						
HUEHUE 92.1	A													1.79	1.30	11	.0	0		4	1	1		
	A																.0	0						
PACIFIC																								
* * * OCTOBER 1978																								
WOLEAI ATOLL	87.8M	72.7M	80.3M		91	18+	65	13		11	0	0	0	10.77		2.02	5	.0	0					
* * * NOVEMBER 1978																								
FRENCH FRIGATE SHOALS	79.6	64.5	72.1	- 3.8	83	21+	60	23+		0	0	0	0	1.49	- 2.01	.46	23	.0	0	4	0	0		
WOLEAI ATOLL	88.3	72.8	80.6		90	23+	62	1		9	0	0	0	13.60		2.52	3	.0	0	18	8	3		
																		.0	0					
* * * APRIL 1979																								
GUAM NAS	86.2	76.8	81.5	.7	88	22	74	28		0	0	0	0	1.50	- 2.33	.41	21	.0	0	4	0	0		
MIDWAY SAND ISLAND	74.8	63.9	69.4	1.8	81	7+	57	13		0	0	0	0	1.98	- .99	.94	8	.0	0	2	1	0		

See Reference Notes Following Station Index

Continued

HAWAII AND PACIFIC

See reference notes following Station Index

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See Reference Notes Following Station Index

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are. Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ± Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

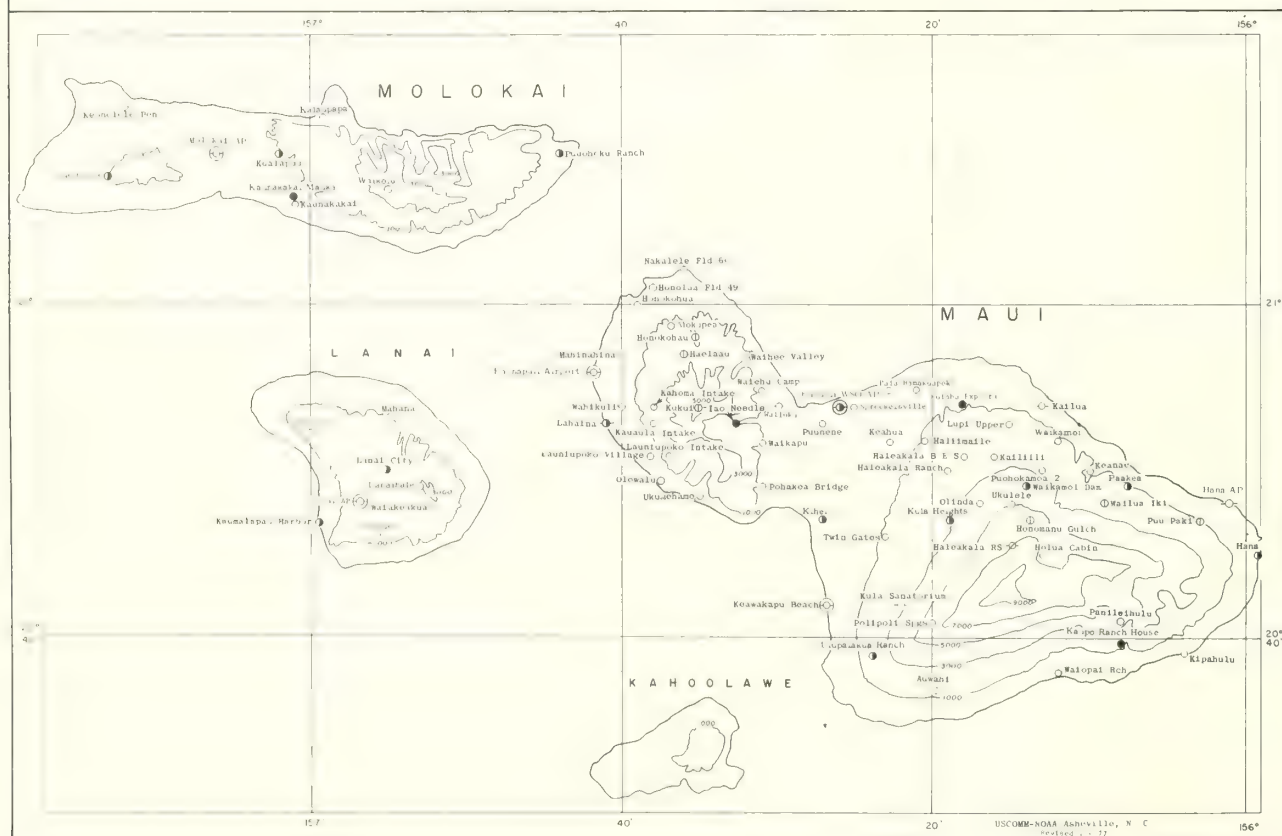
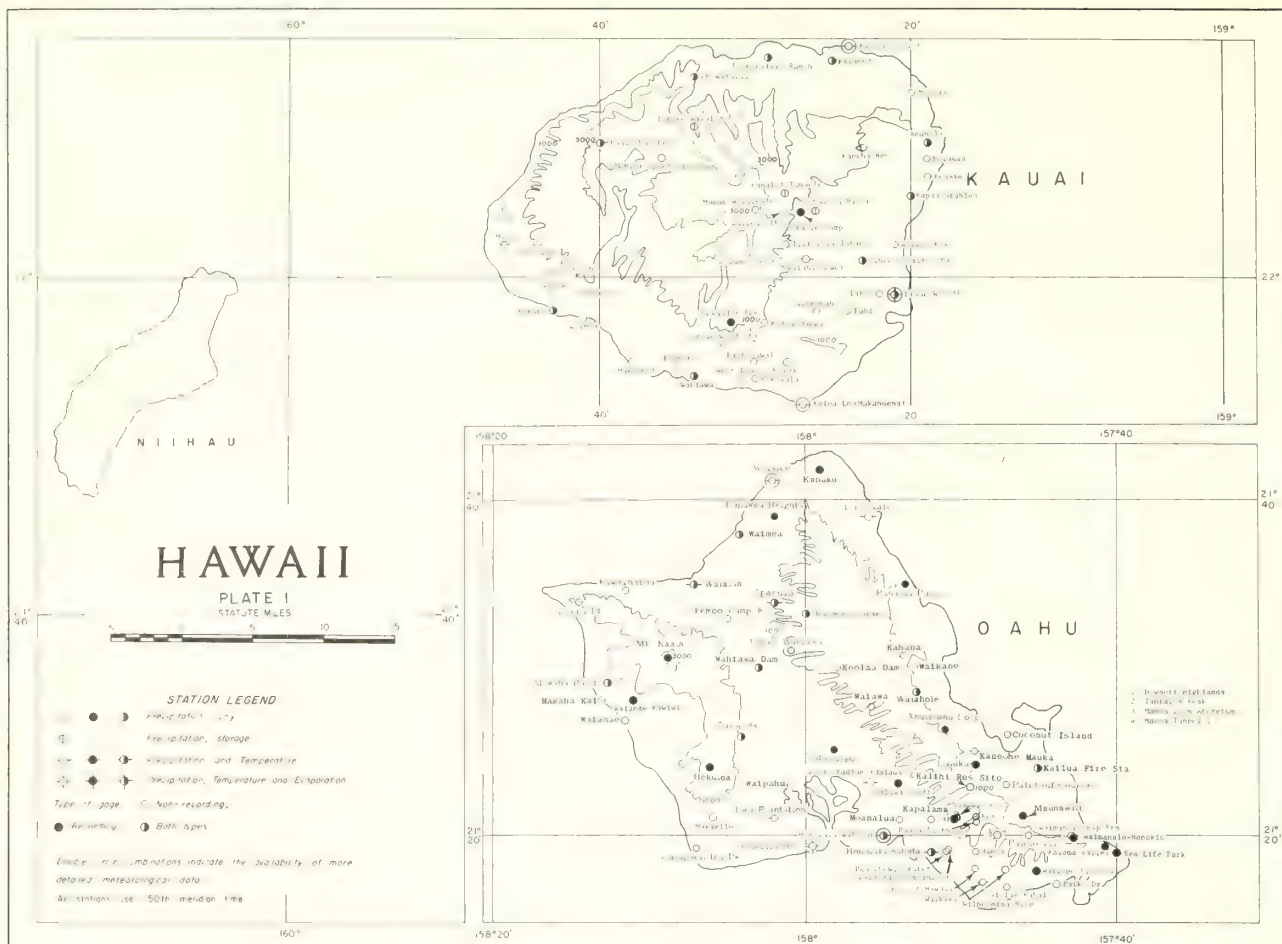
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

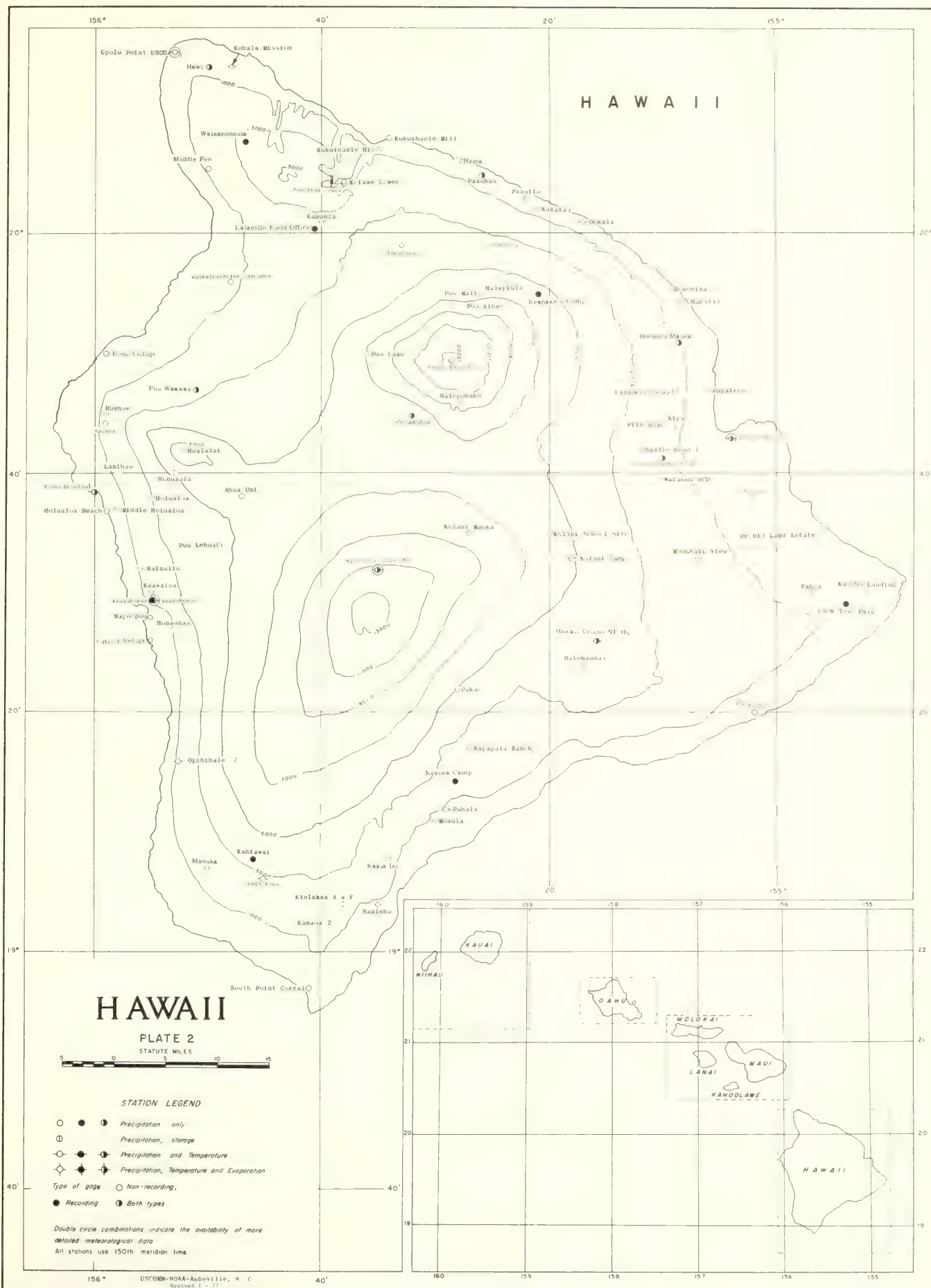
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

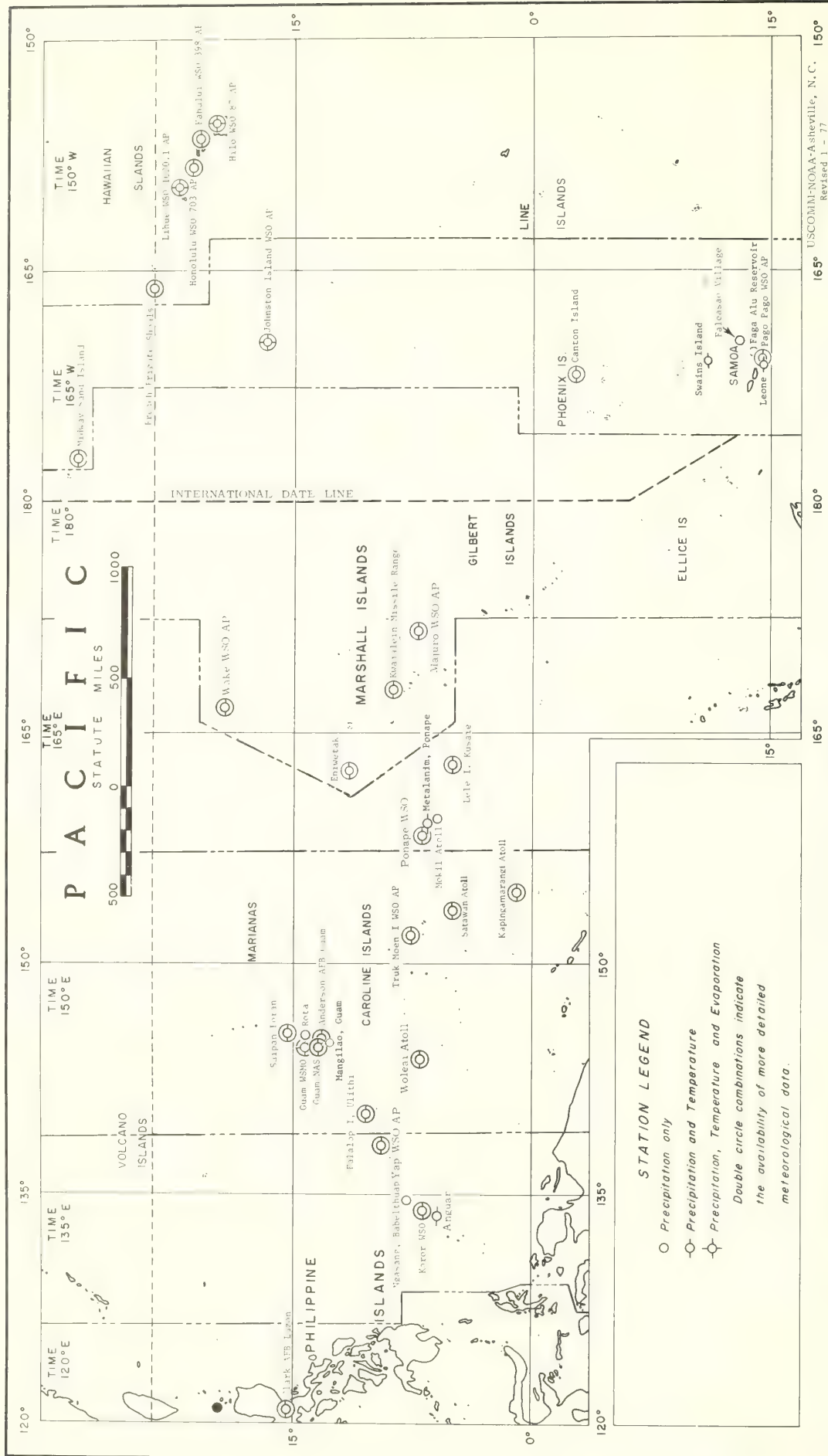
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
 Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
 ATTN: Publications

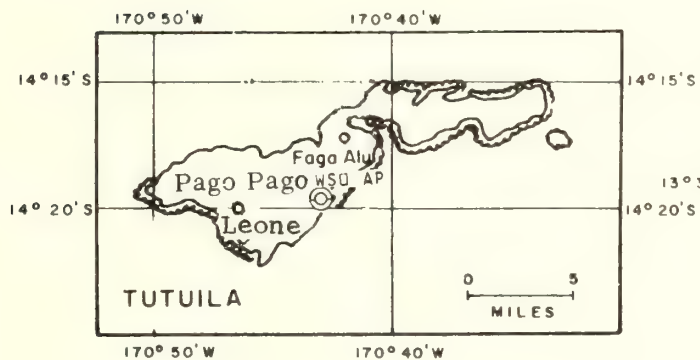
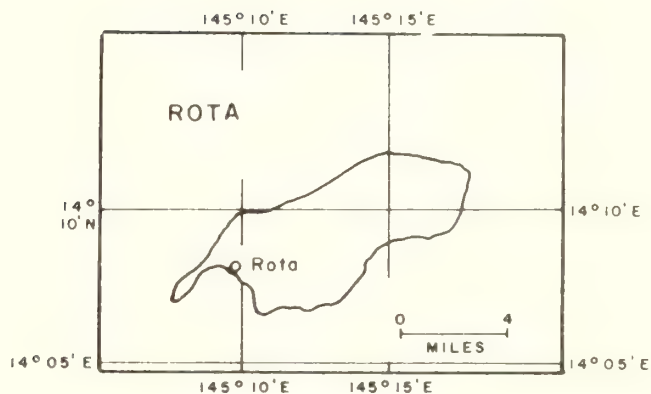
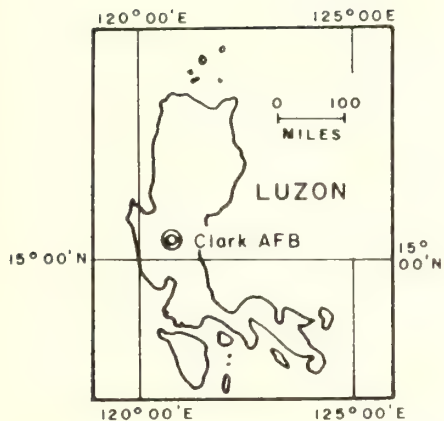
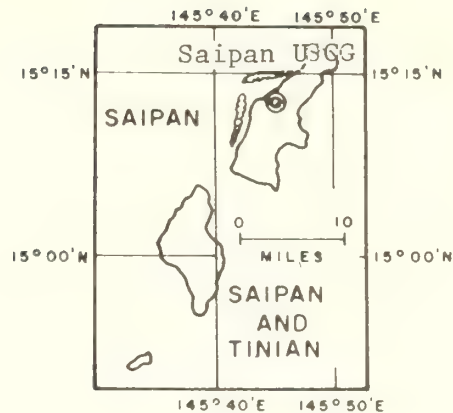
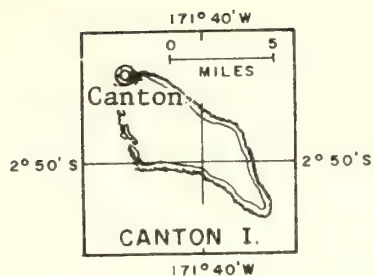
USCOMM-NOAA-ASHEVILLE, N.C. 1979-930



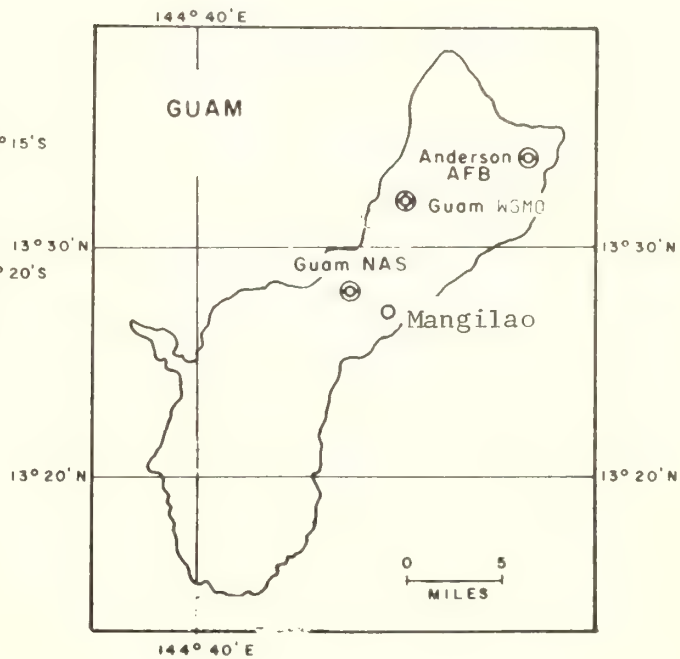


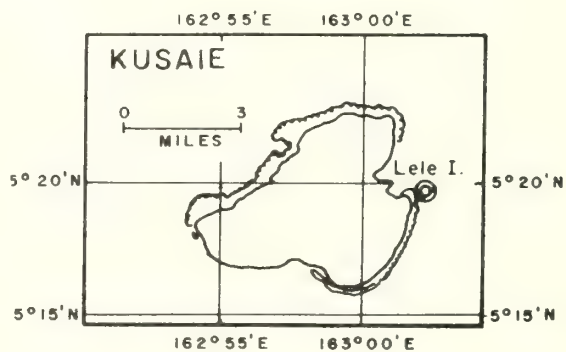
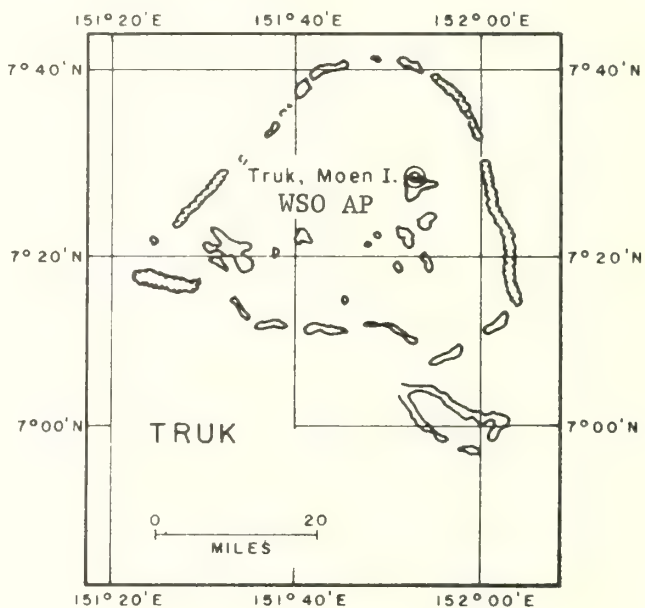
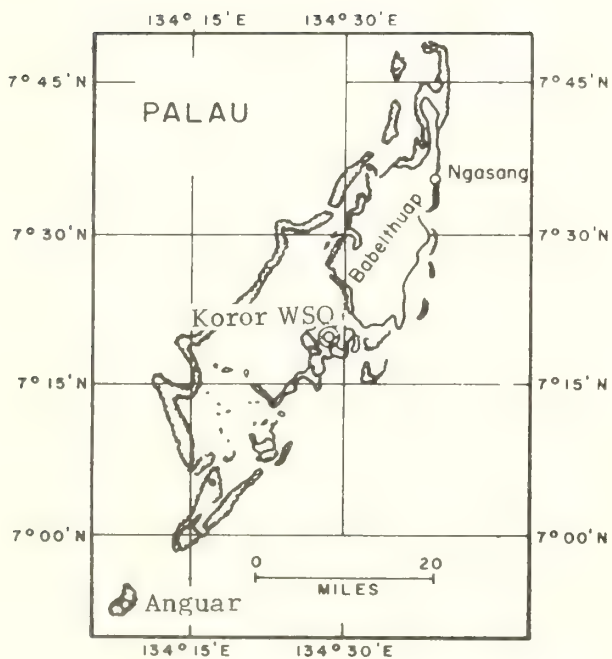
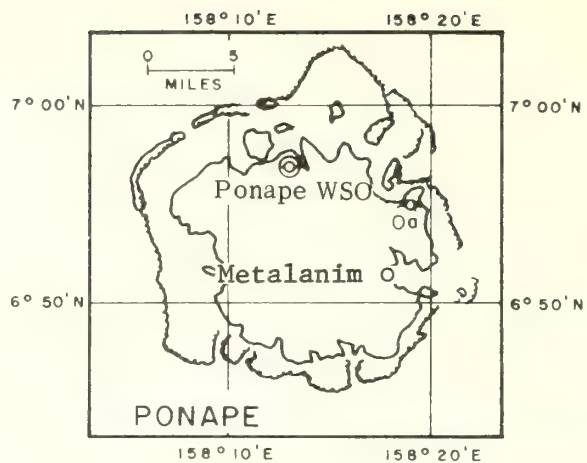
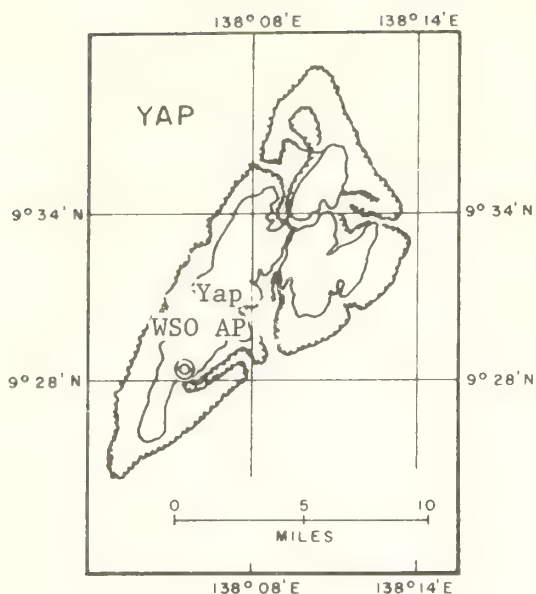
Data for non-recording stations shown on this map may be found in the publication Climatological Data.



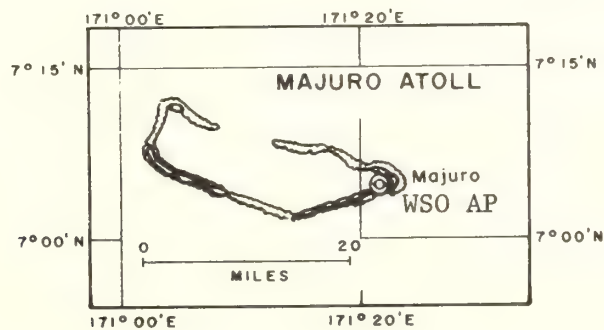
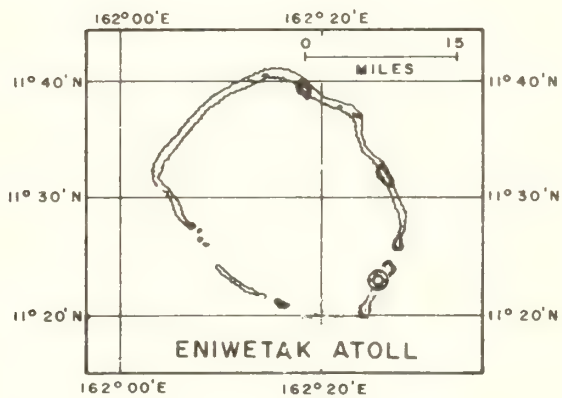
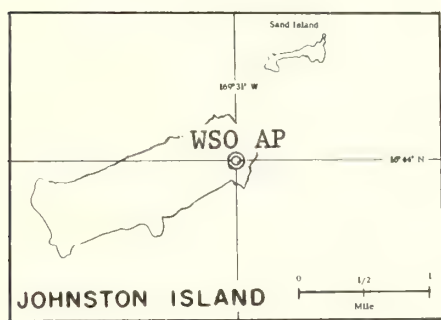
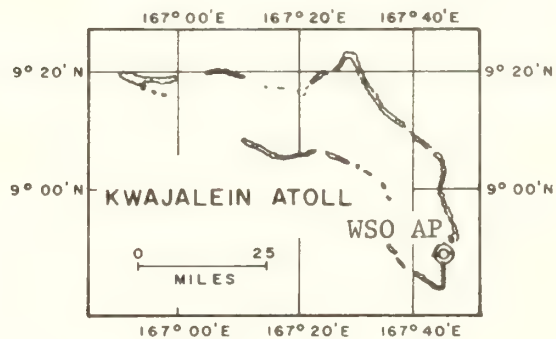
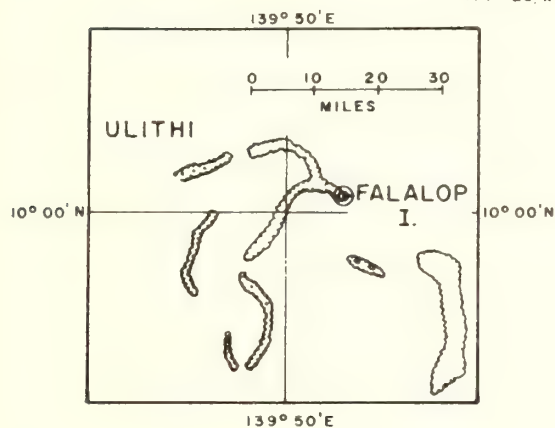
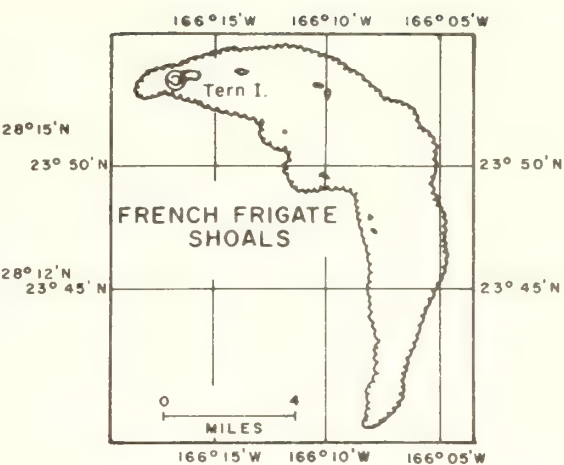
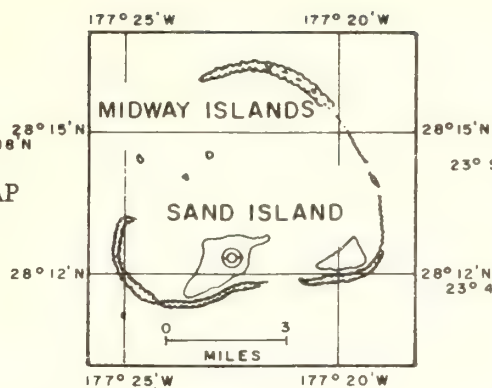
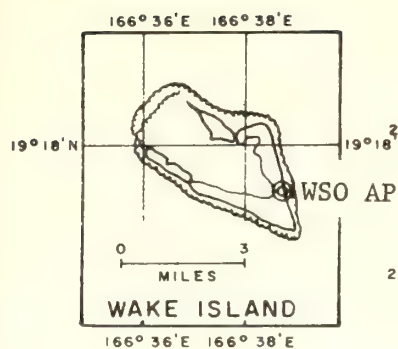


Reef





— Reef



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BULK RATE

Climatological Data



HAWAII AND PACIFIC

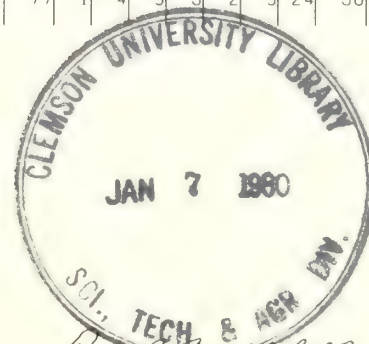
TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	3 STATIONS	93	DATE	24-	
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	22	DATE	01
GREATEST TOTAL PRECIPITATION:	PUOHOKAMOA 2 343	MAUI	21.80		
LEAST TOTAL PRECIPITATION:	25 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KOOLAU DAM 833	OAHU	2.30	DATE	22

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)					RELATIVE HUMIDITY AVERAGES- PERCENT					NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	26	SE	03	-	77	78	92	1	5	11	2	4	1	24	35	8.2	
HILO WSO 87 AP	6	0.7	5.5	17	SE	12	89	83	71	83	3	9	13	5	0	0	30	46	8.0	
HONOLULU WSO 703 AP	7	12.4	13.6	27	E	01	73	64	51	68	11	5	0	0	0	0	16	78	4.8	
JOHNSTON WSO AP	8	17.2	17.8	33	E	24+	83	82	74	81	6	10	2	1	0	0	19	87	3.8	
KAHULUI WSO 398 AP	5	13.0	14.0	29	NE	23	-	70	54	71	4	4	1	0	0	0	9	72	4.4	
KOROR WSO	23	2.6	5.9	29	SW	01	89	-	80	79	4	7	7	5	2	3	28	47	9.4	
KWAJALEIN MISSILE RGN	8	9.7	11.1	23++	9	30+	83	86	76	77	5	6	11	2	1	1	26	-	6.9	
LIHUE WSO 1020.1 AP	6	11.8	13.3	26	NE	25	81	76	63	75	6	10	4	0	0	0	20	74	5.7	
MAJURO WSO AP	8	7.9	8.7	30	E	26	82	85	75	77	1	11	9	4	2	0	27	68	8.5	
PAGO PAGO WSO AP	11	8.9	12.9	30	E	30	84	85	73	81	6	6	5	1	1	2	21	40	7.2	
PONAPE WSO	-	-	-	14	NE	31+	94	-	77	80	2	1	13	6	4	1	27	33	8.4	
TRUK, MOEN I. WSO AP	9	3.3	7.3	29	SE	01	87	-	78	77	2	11	10	3	3	0	29	45	9.3	
WAKE ISLAND WSO AP	9	10.5	11.2	34	SE	19	80	83	64	70	11	9	3	1	0	0	24	69	6.3	
YAP WSO AP	32	0.4	7.2	45	W	04	89	-	81	77	1	4	9	5	2	3	24	58	8.8	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Samuel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JULY 1979

STATION	TEMPERATURE										PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
										80° OR ABOVE	32° OR BELOW	32° OR BELOW	0° OR BELOW										
HAWAII																							
ISLAND OF KAUI																							
ANAHOLA 1114	A													.62				.0	0		0	0	0
KANALOHULU 1075		71.3	53.6	62.5		79 10	45 12+			0	0	0	0	1.56		.33	6	.0	0		6	0	0
KILHUA POINT 1133		85.5	72.8	79.2		89 12	68 26			0	0	0	0	.75		.18	26	.0	0		1	0	0
KO, OA 936	A													3.13				.0	0				
LIIHUE WSO AP 1020-1	//R	84.4	72.4	78.4	.0	89 12	62 12			0	0	0	0	.83	- 1.04	.18	24+	.0	0		4	0	0
MANA 1026																							
N WAILUA DITCH 1051	A													.04	- .58	.04	12	.0	0		0	0	0
PA WAINIHA 1115														6.99		1.22	5	.0	0				
PUEHU RIDGE 1040														3.36	- 6.64			.0	0				
WAIHANA 930	A													.00	- 1.26	.00		.0	0		0	0	0
														1.00	- .77	.22	6	.0	0				
WAIHAI LOWER 1054		79.6	64.4	72.0		83 15	57 13			0	0	0	0	5.43	- 4.24	.79	5	.0	0		17	2	0
WAIHAI 947		87.6	66.9M	77.3M		91 16	56 16			6	0	0	0	.05	- .39	.05	5	.0	0		0	0	0
ISLAND																							
			73.9											1.98				.0					
ISLAND OF OAHU																							
ALOHA STADIUM HALAWA		M	M	M		93 15+	67 11							.83		.20	27+	.0	0		0	0	0
B Y U LAIE 903.1		84.8M	72.4M	78.6M		86 24+	66 13+			0	0	0	0	2.09		.59	26	.0	0		7	1	0
HONOLULU OBSERV 702.2		88.1	68.8	78.5		91 31	65 19+			7	0	0	0	.05		.02	30	.0	0		0	0	0
HONOLULU WSO AP 703	R	88.7	73.1	80.9	.8	91 21+	68 11			12	0	0	0	.13	- .47	.03	28+	.0	0		0	0	0
KANEHE MAUKA 781		81.5	72.4	77.0	.4	85 31+	69 7+			0	0	0	0	1.87	- 2.63	.29	3	.0	0		8	0	0
KOOLAU DAM 833																							
MANOA LYON ARBORETUM	A													8.64		2.30	22	.0	0		12	6	3
NUUANU RES 4 783		78.5	68.1	73.3		85 14	65 13+			0	0	0	0	7.73		1.84	7	.0	0		18	1	1
OPAEULA 870	A													3.50	- 5.32	.94	4	.0	0		8	2	0
PALOLO VALLEY 718	R	82.2	67.5	74.9	2.5	88 18	64 30+			0	0	0	0					.0	0				
																1.34	7	.0	0				
WAIHOLE 837	A													4.40				.0	0				
WAIHOLE 896.3																		.0	0				
WAIHOLE 847	A																	.0	0				
WAIKIKI 717.2		85.2	66.6	75.9	- .2	92 15	62 21+			2	0	0	0	.38	- .57	.14	24	.0	0		1	0	0
WAIMANALO EXP FM 795.1		88.0M	69.5	78.8M		91 31+	63 15			3	0	0	0	.29		.18	7	.0	0		1	0	0
														.31		.08	23+	.0	0		0	0	0
WAIPIAHU 750	A													.15				.0	0		0	0	0
ISLAND																							
			77.2											2.34				.0					
ISLAND OF MOLOKAI																							
MOLOKAI AP 524																							
ISLAND																							
ISLAND OF LANAI																							
LANAI CITY 672	A	76.2M	64.1M	70.2M	- 1.2	81 13	61 12+			0	0	0	0	.92	- 1.22			.0	0				0
ISLAND																							
			70.2											.92				.0					
ISLAND OF MAUI																							
HALEAKALA EXP FARM 434	A													3.88		1.37	7	.0	0		9	2	1
HALEAKALA R S 338		66.1	46.2M	56.2M	- .2	76 17	37 5			0	0	0	0	1.32	- 1.05	.56	29	.0	0		4	1	0
HANA AIRPORT 355		81.5	70.2	75.9		84 31+	65 10			0	0	0	0	2.96		.43	19	.0	0		11	0	0
HONOKOHU 493	A													2.39				.0	0				
KAHANAPALI AP 453.1		86.3	68.5	77.4		89 31+	63 10			0	0	0	0	.05		.05	7	.0	0		0	0	0
KAHULUI WSO 398 AP	R	87.2	71.0	79.1	.9	90 30+	65 31+			4	0	0	0	.23	- .16			.0	0				
KAILUA 446		77.9M	67.0M	72.5M	- .2	81 14	62 13			0	0	0	0	6.52	- 4.15			.0	0		1	0	0
KEANAE 346	A													14.30				.0	0				
KIPAHULU 258														4.31	- 4.61	.40	30	.0	0		18	0	0
KULA HOSPITAL 267		74.0	56.1	65.1	.5	77 25+	52 10			0	0	0	0	.54	- 1.63	.23	8	.0	0		2	0	0
LAHAINA 361		87.5	68.1	77.8	.2	90 22	65 27+			1	0	0	0	.00	- .21	.00		.0	0		0	0	0
PAHA 406														1.05	- .63	.30	7	.0	0				
WAILUKU 386	A													.28	- .46			.0	0				
ISLAND																							
			72.0											2.91				.0					
ISLAND OF HAWAII																							
HAWAII VOLCANO NP HQ 54	R	72.7M	54.6M	63.7M	1.0	79 17	49 3			0	0	0	0	2.15	- 3.08	.25	9+	.0	0		10	0	0
MILU WSO AP 87		81.6	67.6	74.6	.7	85 13+	64 10+			0	0	0	0	6.54	- 3.00	.98	7	.0	0		18	5	0
MUEHUE 92.1	A													2.17		.95	14	.0	0		5	1	0
KAINALIU 73.2		79.1	64.6	71.9		82 18	62 25			0	0	0	0	8.81		.73	1.28	.0	0		19	7	2
KAPOHO BEACH 93.11		86.2M	69.7M	78.0M		91 13	67 28+			2	0	0	0	3.05				.0	0				
KEARAU 92																							
KONA (KAILUA) 68.3	A													6.09				.0	0				
KULIHALE HIC 199														7.28	2.35	.97	7	.0	0		19	6	0
KULANI CAMP 79		67.6	53.0	60.3		75 18+	45 10			0	0	0	0	3.35		.81	9	.0	0		12	1	0
PAHALA 21	A													.17		.08	5	.0	0		0	0	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JULY 1979

STATION	TEMPERATURE											PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.	MIN.							TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
											30" OR ABOVE	29" OR BELOW	27" OR BELOW											25" OR BELOW
HAWAII																								
PUUKOHOLA HEIAU 98.1	89.9M	71.1M	80.5M		93	16	68	27.			20	0	0	0	.04		.03	29	.0			0	0	0
SOUTH KONA 2.31	75.2	59.6	67.4		82	2	56	26			0	0	0	0	.83		.19	17.	.0			3	0	0
WAIKAKA SCD 88.2															12.84		1.73	8	.0			20	12	4
ISLAND			70.9												4.44				.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JULY 1979

STATION		TEMPERATURE										PRECIPITATION										
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS			
									MAX.		MIN.					TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE	
									32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW										
PACIFIC																						
EAST OF 180TH MERIDIAN																						
ATU'U CANTON ISLAND FALEASAO VILLAGE JOHNSTON IS WSO AP FRENCH FRIGATE SHOALS		R	85.0	76.8	80.9	.1	87 23	72 24	0	0	0	0	25.43 1.54	.45	9.01 .70	24 24	.0 .0	0	0	24 3	14 1	3 0
MIDWAY SAND ISLAND MALAELOA PAGO PAGO WSO AP		R	83.5	73.3	78.4	.1	87 12*	68 10	0	0	0	0	11.52 8.83	1.89	2.82	23	.0 .0	0	0	9	4	3
WESTERN PACIFIC ISL. NORTH OF 12° N																						
AGAT ANDERSEN AFB GUAM CLARK AFB LUZON DEDEO GUAM NAS			83.7 87.5	76.7 75.8	80.2 81.7	.2 1.1	88 19 91 20*	75 31* 73 30*	0 13	0 0	0 0	0 0	10.48 9.79 9.70 12.56	.78 - 2.76	2.00 1.62 2.03 2.05	29 25 4	.0 .0 .0 .0	0	0	17 18 16 20	8 7 8 9	4 8 3 5
GUAM WSMO INARAJAN AG STN INARAJAN - NASA MANGILAO ROTA		R	86.8 88.0	72.6 73.9M	79.7 81.0M	.3	91 16 89 30*	69 12 71 13	4 0	0 0	0 0	0 0	11.83 11.96 12.00 6.78 9.28	2.24	2.04 1.65 2.00 .90 2.70	28 29 29 25 25	.0 .0 .0 .0 .0	0	0	18 20 17 16 15	7 11 8 5 7	5 8 6 0 2
SAIPAN LORAN UMATAO WAKE ISLAND WSO AP YIGO		R	91.5	78.9	85.2	3.2	94 18	74 25	28	0	0	0	11.74 1.77	- 2.68	2.00 .62	30 8	.0 .0	0	0	15 4	8 1	6 0
CAROLINE AND MARSHALL ISLANDS																						
ENWETAK FALALOP I ULITHI ATOLL KAPINGAMARANGI ATOLL KOROR WSO KWAJALEIN MISSILE RGN		R R	87.1 87.2	75.0 77.7	81.1 82.5	.0 .4	90 15 89 22*	72 22* 74 27	1 0	0 0	0 0	0 0	17.79 9.29	1.60 .41	5.52 3.40	22 27	.0 .0	0	0	17 15	10 4	5 2
LELE I KOSRAE MAJURO WSO AP METALANIM NGASANG-BABELTHUAP PONAPE WSO		R R R	86.7 87.5 89.6	76.3 71.5 73.2	81.5 79.5 81.4	.5	88 24* 90 30* 92 30	74 23* 69 23* 70 21	0 4 20	0 0 0	0 0 0	0 0 0	6.67 13.04 17.07	- 6.97	1.33 2.20 2.64	23 3 3	.0 .0 .0	0	0	15 21 24	6 10 11	2 3 5
SATAWAN ATOLL TRUK MOEN I WSO AP WOLEAI ATOLL YAP WSO AP		R R	87.6 86.5	75.9 73.7	81.8 80.1	1.1 - 1.1	90 31* 90 8	74 31* 70 26	4 1	0 0	0 0	0 0	9.02 14.44	- 6.39 - .20	1.52 2.38	3 3	.0 .0	0	0	16 19	6 10	3 5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JULY 1979

STATION	TOTAL	DAY OF MONTH																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																			
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	.62	x	.20	.04	x	x	x	.04	x	x	.04	x	x	.03	.02	.06	x	x	.02	x	x	.34	.11	.28	.16	.02	.19	x	x	.04	x	.04		
BOYES-ADAMS STA 985	A	2.20	x	x	.08	.05	.15	.30	x	x	.36	x	x	.03	.03	.02	x	x	.02	x	x	.02	x	.34	.11	.28	.16	.02	.19	x	x	.04	x	.04	
EAST LAWA 834	A	3.02	x	x	.08	.12	.12	.34	x	x	.30	x	x	.08	.07	.03	x	x	.08	x	x	.57	.10	.29	.15	.03	.19	x	x	.04	x	.04			
ELEELE 927	A	-	-	-	.02	.02	.11	x	x	.10	x	x	.01	T	-	-	x	x	.03	.02	x	.03	.02	.07	.19	.04	.19	x	x	.04	x	.04			
HALAULA 1110	A	.93	x	.17	.04	x	x	.13	x	x	.13	x	x	.07	.02	.14	x	x	.07	.02	.14	x	x	.07	.02	.14	x	x	.07	.02	.14	x	.04		
HALENAHAW 1006	A	2.64	x	.09	.06	.13	.05	x	x	.59	x	x	.14	.08	.06	x	x	.19	x	x	.42	.07	.23	.16	x	x	.37	x	x	.37	x	.04			
HANALEI TUNNEL 1053	A	7.00	x	.07	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.04			
HUKILO 945	A	.07	x	.17	.04	x	x	.10	x	x	.10	x	x	.01	T	-	x	x	.03	.02	x	.03	.02	.07	.19	.04	.19	x	x	.04	x	.04			
ILII LULA INTAKE 1050	A	8.14	x	2.16	.11	.13	.86	x	x	1.26	.03	x	x	x	.31	.52	.17	.08	.07	x	x	.72	.17	.14	.72	.08	x	x	.03	.51	.09	x	.04		
INTAKE WAINIHA PC 1086	A	6.74	x	x	.17	x	x	1.70	x	x	1.10	x	x	x	.01	x	x	.22	x	x	x	.12	x	x	.12	x	x	.24	x	x	.04	x	.04		
KANALOHULU 1075	A	1.56	x	.09	.06	.05	.02	.33	.28	x	x	.10	x	x	.25	.09	.17	.08	x	x	.08	.14	.07	.16	.34	x	x	.21	x	.05	.25	x	.04		
KANEHUA RESERVOIR 1092	A	2.51	x	.35	.04	.03	.10	x	x	.40	x	x	.25	.09	.17	.08	x	x	.08	.14	.07	.16	.34	x	x	.21	x	.05	.25	x	.04	x	.04		
KEALA 1112	A	.62	x	.04	.01	x	x	.15	x	x	.15	x	x	.10	.03	.05	x	x	.10	.03	.05	x	x	.10	.03	.05	x	x	.10	.03	.05	x	.04		
KEKONA 944	A	.11	x	.02	.05	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
KILAUEA 1134	A	1.82	.04	.02	.08	.08	.32	x	x	x	x	x	x	.03	.06	.12	.04	x	x	x	.60	x	.22	.18	x	x	.07	x	x	.07	x	.04	x	.04	
KILAUEA POINT 1133	A	.75	x	.05	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
KOLB 1033	A	.00	x	.20	.13	.04	.40	x	x	.40	x	x	.16	.08	.03	.12	x	x	.12	x	x	.54	.30	.16	.16	.01	x	x	.40	x	.04	x	.04		
KOLB 936	A	3.13	x	x	.10	.08	x	x	.17	.11	.03	.69	x	x	.12	x	x	.12	x	x	.12	x	x	.12	x	x	.12	x	x	.12	x	.04	x	.04	
KOLB MAUKA 904	A	3.87	x	x	.10	.08	x	x	.17	.11	.03	.69	x	x	.12	x	x	.12	x	x	.12	x	x	.12	x	x	.12	x	x	.12	x	.04	x	.04	
KOLB RES 1137	A	1.53	x	.07	.02	.05	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
KUKUIULA 935	A	1.30	x	.04	.03	.01	.10	x	x	.13	x	x	.03	.03	.01	.05	x	x	.13	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
LIHUE VARIETY ST 10521	A	2.35	x	.20	.08	.15	.03	x	x	.28	x	x	.25	.10	.14	.15	x	x	.30	.10	.14	.15	x	x	.30	.10	.14	.15	x	x	.30	.10	.14	x	.04
LIHUE 1020	A	.86	x	.01	.01	.04	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
LIHUE H50 AP 1020.1	A	.83	T	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.01	.05	.12	.03	x	x	.14	x	x	.05	.10	.07	.03	x	x	.22	.12	.10	.07	.03	.03	.03	.03	.03	.03	.03	.03	.03	.04	x	.04
MAHALEI 965	A	.19	x	.01	.0																														

HAWAII AND PACIFIC
JULY 1979

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DAILY PRECIPITATION

HAWAII AND PACIFIC
JULY 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ORCHID LAND EST 91.5	A	7.19	x	x	x	x	x	1.10	x	x	x	x	x	x	1.93	x	x	x	x	x	1.12	x	x	x	x	x	2.95	x	x	x	x	x	
PARAHU 217		5.47		.47	.22	.05	.16	1.30	.42	.21	.03	.62	.02			.01					.29			.24	.12	.42	.36	.32	.19			.02	
PARULI B 221		6.73		.90	.38	.14	.24	1.44	1.80	.03		.40				.20							.04	.29	.04	.37	.15	.24	.05			.02	
PAHOLA 21	A	.17				.08						.02				.01					.02												
PAHOLA 65	V19.45	x	.12	.21	x	.65	.15	x	x	1.55	.05	.12			x	x	.59	.42	.40	10	.15	x	x	1.15	.12	.24	.40	.62	x	x	.52	.12	
PAPAIOU 144.1		8.71		.11	x	1.09	.04	x	x	1.95	.12	.18			x	x	x	.25	.12	.15	.20	.04	x	x	1.40	.56	.40	.34	.80	x	x	.66	.22
PAPAIOU MAUKA 140.1		13.85	x	x	x	x	x	x	x	6.76	x	x	x	x	x	x	1.16	x	x	x	x	x	x	x	2.55	x	x	x	x	x	2.80	.58	
PIIHOHUA 89	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUUKOHOLA HEIAU 98.1		.04																															
PUU LEHUA 73	A	1.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.01	x	x	x	x	x	x	.03	1.80	
PUUHOHUA-B-MONAUNAU		2.87		.82			.12	.24				.02			.19	.01		.02	.35			.21			.30	.11	.03	.38		.02		.16	
SOUTH KOHA 2.31		.83	.19	.06	.02														.13	.07						.11	.03	.05	.08				
UPBLU POINT USCG 159.2		1.72		.12	.03	.02	.01	.12	.19	.02		.25			.02	.25	.01	.19	T		.02	.05	10	.08	.23	.02	.04	.06	T		.08		
WATAKEA SCD 88.2		12.84	.01	.21	1.05	.57	.42	1.67	1.73	.95	.03	.08				.64	.17	.20	.13		.11	.06		.35	.66	.50	.20	.63	1.15	.68	.05	.11	.58
WATAKEA-B015 CAS 95.8		.18		.07								.03								T							.08						

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DAILY PRECIPITATION

HAWAII AND PACIFIC
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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
ATU I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CANTON ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
FALEASAO VILLAGE	25.43	.11	.28	.71	1.04	.96	.37	.81	.64	.12	.37					.07	.51	.76	.18	.26	.54	.09	.54	5.03	9.01	.62	.24	.42	.71	.07	.68	.29		
JOHNSTON IS WSO AP	1.54							.04	.06							.08	.18	.22					.01		.70		.03	.09		.02	.03	.07		
FRENCH FRIGATE SHOALS																																		
MIDWAY SAND ISLAND																																		
MALRELOA	11.52	.20				.05	.07	.14					1.90		.12		2.35	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.60		
PAGO PAGO WSO AP	8.83				.16		.28	.06			.03	.26		.60	T	1.43	T			T		.13	2.56	2.82	.38	T	.02	T		.04	.04	.02		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
AGAT	10.48	.13	.04	.13	.15	.30				10									.78		.88	.10	.30	1.24		.90	1.10	.18	.40	2.00	.70	1.04		
ANDERSEN AFB GUAM	9.79		.13	.17	.34	.18	.24						T			.09	.31		.03	.21	.38	.03	1.06	.89	1.08	1.62	.16	.34	.76	.16	1.03	.58		
CLARK AFB LUZON	9.70			.31	2.03	.16	.05		T	.38	.14	.09		.23	.21	T				T	1.41	.03	.05	.33	1.18	.63	.66	.59	.55	.51	.16			
DEDEB	12.56	.15	.12	.45	.18	.17	.41	.05		.40	.06			.25					.32	.20		.83	.60	.60	.57	T	1.15	1.40	.20	1.40	2.05	T	1.00	
GUAM NAS																																		
GUAM WSO	11.83	.05	.31	.45	.28	.22		.47	.01		.04	T			.07	.14				.09	.32	.17	.42	.68	.71	1.64	.46	1.04	2.04	.12	1.08	1.01		
INABAJAN AG STN	11.86		.59	.10	1.00	.50					.23	.17	.72								.41		.56	1.45	.10	.44	.20	.54	.62	1.65	.93	1.30		
INABAJAN - NASA	12.00	.03	.29	.09	.11	.30		.70	.01		.17			.18	1.43		.15		.30		.01	.56	.01	1.16	.20	T	1.24	.30	.25	1.43	2.00	.15	1.38	
MANGILAO	6.78	.14	.15	.40	.06	.06		.04	.09	.09	.83			.10		.68				.06	.24	.15	.43	.32		.90	.51	.25	.70	.20	.03	.35		
ROTA	9.28	.08	1.03	.01			.02				.03					.08	.84	.18	.34		.24	.15	.12	.84	.04		2.70	.72	.15	.64	.21	.54	.22	
SAIPAN LORAN																																		
UNATAC	11.74	T	T		.24	T	.16	T			.34	T			.16	.11	T		.20	T						1.15	.48	.72	1.23	1.78	.61	1.34	1.22	2.00
WAKE ISLAND WSO AP	1.77						.06		.62	.02	T	T	T	.03			T	T			.27		T			T	.01	.27	.01	.06	.02	.02	.08	.30
YIGO																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENHETAK																																		
FALALOP I ULITHI ATOLL																																		
KAPINGMARANGI ATOLL																																		
KOROR WSO	17.79	3.05	.18		1.04	.51	.14	.09	.07	.72	2.23	T	T	T	1.01	.29	.16	.45	.02	.08	.18	.15	5.52	.05	.96	.55	.08	.06	T		.58			
KWAKALEIN MISSILE RGN	9.29	.16	.11	.35	.08	1.78					.01	T	.22	.27	T	.08	.05	T	.15	.08	.06		.13	.40	.55	T	.17	3.40	T	.27	.29	.67		
LELE I KOSRAE																																		
MAJURO WSO AP	5.57	.62	.17	.12	.59	.12		.22	T	.01		.25	.50	.06	.05	.28	.02	.25			.01	.06	.13	1.33	.01	.04	1.12	.52	.02	.10	.06	.01		
METALANTH	13.04	.90	.82	2.20	1.10	.81	.20	.36	.61		.18		.21	.32	.52	.18	.25	.80	.40	.50	.46			.04			T	.25	1.57	.02	.25			
NGASANG-BABEL THUAP																																		
PONAPE WSO	17.07	.99	1.28	2.64	.84	.42	1.59	.36		.03	.44			.79	T	.28	.71	.15	1.80	.10	.25	.27		.37	.19	.55	.52	.27	.33	.24	T	1.66		
SATAHAN ATOLL																																		
TAUK MOEN I WSO AP	9.02	1.09	1.34	1.52	.01	.33	.12	.05	.29	.69	.25	.04	.01	.01	T	.06	.04		T	.05	.33	.38		.03	.28	.52	.35	.06	.13	.01	.71	.32		
WOLEAI ATOLL																																		
YAP WSO AP	14.44	.15	.14	2.38	2.26	.30	.80			.54	.59	.63	.54	.01		.13	.27			.05	.01	.30	1.16	.46	.12	.15	2.26	1.17	T			.03		

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DAILY TEMPERATURES

HAWAII AND PACIFIC
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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	69 55	70 55	71 57	70 53	71 54	71 56	73 58	74 54	72 51	79 45	72 46	71 45	73 53	72 50	73 55	70 57	76 58	74 50	72 51	72 53	74 53	70 57	70 52	68 57	66 58	65 57	68 56	70 54	71 58	74 56	69 50	71.3 53.6
KILAUEA POINT 1133	MAX MIN	81 74	84 74	83 70	83 74	84 73	83 73	85 73	84 73	85 73	85 69	89 72	87 73	88 74	85 74	87 73	86 73	86 73	87 73	86 74	87 74	86 73	86 74	86 72	85 73	83 68	85 73	86 74	87 74	88 74	88 72	85.5 72.8	
LIHUE WSO AP 1020-1	MAX MIN	82 76	83 74	83 73	83 70	83 75	83 72	84 73	83 72	83 72	82 68	82 65	89 62	87 64	85 62	85 62	85 64	84 65	85 66	84 65	85 66	85 62	85 62	83 65	83 66	85 64	84 65	85 66	84 63	85 64	86 63	86 63	84.4 72.4
NIU RIDGE 1035	MAX MIN			89 63	87 62	87 65	88 65		89 61	87 64	85 63	86 62	87 59		89 65	87 65	89 64	88 64	88 62	88 62	88 65			92 64	90 66	86 64	86 65	88 64		89 63	87 65	87 65	87.6 66.9
WAIKAI LOWER 1054	MAX MIN	78 68	79 68	80 67	78 66	75 65	78 65	80 63	79 63	80 63	80 62	80 59	83 58	80 57	80 65	83 64	79 65	78 66	80 64	80 62	82 62	82 65	80 66	79 68	80 67	79 66	80 67	79 65	80 63	80 65	80 67	80 65	79.6 64.4
WAIMEA 947	MAX MIN	88 68	87 67	88 67	87 67	88 68	86 68	86 63	85 64	84 69	86 68	85 69	85 68	85 70	86 73	89 62	88 56	89 63	89 66	89 62	89 67	89 67	90 66	90 66	90 66	89 67	87 65	89 69	90 68	89 69	86 68	87.6 66.9	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN		81 73	84 70		85 74	84 74		84 69	85 69	85 67	90 68	93 69	93 69		86 70	86 74	86 69	85 69	86 69			86 72	85 74	82 73	83 74	84 72			87 70			
B Y U LAIE 903-1	MAX MIN	83 75	84 75	84 74	84 72	85 77	84 69	84 72	84 74	85 72		85 68	84 66	86 70	85 72	86 75	86 73	84 71	85 74	86 74	86 74	86 74	86 74	86 71	86 72	86 69	85 72	85 75	84 71	84 74	85 75	85 73	84.8 72.4
HONOLULU OBSERV 702-2	MAX MIN	87 74	88 74	87 69	87 67	88 69	86 67	87 66	89 66	90 66	88 65	85 65	85 67	90 67	90 70	88 74	90 73	88 66	88 65	88 66	88 68	89 73	87 74	90 72	87 67	88 67	88 70	88 67	89 71	89 69	91 67	88.1 68.8	
HONOLULU WSO AP 703	MAX MIN	90 76	89 73	90 71	90 73	86 74	88 72	90 73	91 71	88 68	87 69	86 69	89 70	91 77	88 78	89 76	89 76	89 74	89 73	90 74	91 75	88 73	88 74	88 75	87 71	87 76	88 73	87 71	87 71	88 74	88 73	88.7 73.1	
KANEHE MAUKA 781	MAX MIN	78 69	80 73	79 69	79 70	80 72	81 71	78 69	78 70	82 74	82 72	82 70	84 71	84 73	84 74	80 74	82 74	82 73	82 73	82 74	82 74	82 73	82 74	82 74	82 72	81 72	81 72	82 72	81 70	80 72	84 73	85 72	81.5 72.4
MANOA LYON ARBORETUM	MAX MIN	76 71	79 70	74 65	74 65	79 67	78 67	72 67	78 66	80 68	81 69	80 65	83 65	84 65	84 67	77 67	82 70	78 74	78 69	78 68	79 69	77 69	77 69	79 69	74 67	76 66	77 67	76 67	78 69	81 70	83 71	78.5 68.1	
OPAEULA 870	MAX MIN	82 69	82 70	82 67	80 64	82 67	82 66	77 67	79 64	82 69	79 64	82 67	82 66	87 66	78 69	85 75	86 76	88 68	88 66	88 65	80 66	82 66	80 70	81 70	84 68	84 67	84 66	84 66	84 66	84 66	84 66	82.2 67.5	
WAIKALEE 896-3	MAX MIN																																
WAIKALEE 847	MAX MIN	84 72	86 68	85 69	84 70	86 71	86 69	80 64	82 62	84 66	87 63	86 63	85 64	90 65	86 66	92 70	82 74	88 73	81 63	86 62	86 64	86 62	86 62	86 62	84 65	84 66	86 65	84 65	84 68	84 68	89 64	85.2 66.6	
WAIKIKI 717-2	MAX MIN	86 72	87 73	86 68	88 68	87 71	87 69	88 69	87 71	87 68	88 66	88 64	88 65	88 66	88 63	88 69	87 74	87 74	87 70	87 65	87 72	87 67	88 73	88 74	88 72	88 71	88 64	88 70	88 70	88 74	88 72	88.0 69.5	
WAIMANALO EXP FM 795-1	MAX MIN																																
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	81 67	86 67	80 66	75 65	80 65	83 66	80 66	81 65	83 67	84 65	81 63	81 61	82 64	82 65	84 69	83 68	84 66	82 65	82 64	83 66	80 65	80 68	82 68	84 66	83 66	82 66	81 66	84 65	84 64	85 63	81.8 65.5	
LANAI CITY 672	MAX MIN	77 65	78 66	76 64	75 64	75 65	78 63	71 64	72 65	74 64	77 63	79 61	78 61	81 62		77 66	77 65	76 65	78 63	78 64	78 64	72 67	74 67	76 65	75 64	76 65	76 64	75 63	78 63	78 63	79 64	79 64	76.2 64.1
ISLAND OF MAUI																																	
MOLEKALA R S 338	MAX MIN	70 59	71 50	63 45	63 39	59 37	59 39	63 48	57 42	63 42	69 48	72 45	69 44	67 52	72 57	72 58	73 57	76 53	68 48	64 40	64 41	63 46	69 52	67 45	65 41	64 40	68 46	62 45		61 43	62 45	65 40	66.1 46.2
HANA AIRPORT 355	MAX MIN	78 64	81 71	81 68	82 71	81 70	82 70	80 69	80 70	80 70	81 65	82 70	82 70	83 72	84 72	80 72	81 73	84 69	82 69	82 70	82 69	82 70	81 72	78 69	82 70	82 69	82 68	82 68	83 66	79 68	83 67	84 69	81.5 70.2
KAAHAPALI AP 453-1	MAX MIN	86 69	89 72	84 69	84 67	87 70	87 70	85 68	83 66	87 66	86 63	86 65	86 68	87 67	86 71	86 70	87 71	86 70	86 65	86 66	87 68	87 72	87 71	87 71	85 70	85 68	85 70	85 68	85 67	85 66	87 68	89 68	86.3 68.5
KAHULUI WSO 398 AP	MAX MIN	88 60	86 56	86 54	86 73	87 74	86 74	82 73	84 71	85 71	86 65	85 56	87 56	90 54	88 55	90 56	89 57	88 55	88 56	88 57	87 55	87 55	87 55	87 55	87 55	87 55	87 55	85 55	90 55	90 55	89 55	87.2 71.0	
KAILUA 446	MAX MIN	75 69	77 68	76 68	78 69	78 68	77 68	76 66	75 67	78 68	78 66	79 66	78 66	80 62	81 64	76 68	80 72	78 69	78 67	78 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	79 66	77.9 67.0	
KEAWAKAPU BEACH 260-2	MAX MIN	86 70	92 66	91 65	90 65	88 65	89 65	89 65	88 65	89 65	88 61	88 63	89 67	89 68	90 70	92 68	91 68	92 65	90 65	90 65	90 64	90 64	90 64	90 64	90 64	90 64	90 64	90 64	90 64	90 64	90 64	89.7 65.9	
KULA BRANCH STN 324-5	MAX MIN	74 60	76 56	76 54	74 55	73 56	75 57	75 56	77 55	73 56	75 54	75 55	73 56	72 58	75 57	73 61	78 59	75 57	76 55	75 55	75 56	76 55	76 55	76 55	76 55	76 55	76 55	76 55	76 55	76 55	76 55	75.1 56.4	
KULA HOSPITAL 267	MAX MIN	71 57	72 59	75 55	75 55	69 55	71 55	73 57	71 57	73 57	76 52	75 54	75 55	74 58	75 57	75 59	76 58	74 57	75 57	75 57	72 57	72 57	74 57	74 57	76 57	77 55	74 54	75 55	74 55	75 55	74.0 56.1		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JULY 1979

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
KAHAINA 361	MAX MIN	86 69	86 67	87 67	88 66	87 66	88 67	87 73	89 69	87 71	86 65	85 65	86 67	88 67	89 72	89 73	88 68	87 67	87 67	87 66	89 66	88 66	90 74	89 73	88 65	88 65	87 65	88 65	87 70	87 70	88 71	87 67	87.5 68.1
ISLAND OF HAWAII																																	
HAWAII VOLCONS NP HQ 54	MAX MIN	70 56	73 55	69 49	76 55	68 54	69 55	70 55	73 53	74 57	77 52	76 52	78 56	75 61	70 57	79 54	71 54	73 55	75 50	74 54	76 59	74 55	68 54	68 54	70 52	70 54	70 54	70 54	74 55	75 55	72 56	72.7 54.6	
HILO WSO AP 87	MAX MIN	84 67	81 69	81 67	78 68	81 68	81 67	81 68	79 64	82 64	85 71	85 66	85 66	79 65	81 71	82 68	81 67	82 68	81 67	82 66	83 66	80 71	82 68	82 68	81 67	81 65	81 67	82 69	84 66	79 68	82 69	81.6 67.6	
KAHALU 73.2	MAX MIN	78 66	76 65	81 65	78 64	77 63	77 65	75 63	78 64	78 65	80 66	80 64	80 65	81 64	76 68	81 66	79 68	79 67	82 64	78 63	81 63	78 64	79 67	81 63	80 63	80 63	80 63	80 64	80 64	80 64	80 64	79.1 64.6	
KAMUELA 192.2	MAX MIN	75 63	71 60	72 61	72 61	73 59	71 59	71 61	74 61	73 59	76 57	73 52	77 56	73 56	75 63	76 61	73 60	73 60	75 61	75 62	75 60	74 61	75 61	71 61	73 60	69 64	72 59	72 55	76 56	77 62	75 60	73.6 59.8	
KAPOHO BEACH 93.11	MAX MIN	84 74	87 73	84 68	86 71	83 68	85 67	85 69	85 69	83 68	85 69	88 73	91 71	84 73	89 74	87 68	86 67	87 67	89 68	85 69	87 72	84 70	86 69	85 68	86 68	86 68	86 68	86 67	87 71	89 73	90 69	86.2 69.7	
KONA (KAILUA) 68.3	MAX MIN													81 75	85 73	86 73	88 73	86 72	84 70	85 69		87 68	87 70	86 71	85 68	86 68	87 68	88 69	86 70	87 69	85 71		
KULANI CAMP 79	MAX MIN	74 59	61 50	75 53	66 52	65 52	65 52	62 51	61 50	64 45	69 56	69 60	74 67	73 68	71 54	68 57	71 52	75 49	73 48	66 46	69 59	68 50	69 52	64 50	63 54	63 56	63 47	62 50	65 52	68 47	67 53	67.6 53.0	
MAUNA KEA OBS 111.2	MAX MIN	47 22	47 29	53 31	54 32	55 35	58 34	54 31	52 34	57 37	54 39	53 37	52 33	48 27	50 26	48 26	52 26	50 26	47 27	52 26	53 26	54 28	51 27	52 27	57 29	53 32	55 35	53 35	53 32	54 35	53 36	52.4 31.4	
MAUNA LOA SLOPE OBS	MAX MIN	55 41	58 38	57 40	57 40	57 40	59 40	56 38	52 37	56 39	58 39	58 37	56 37	57 39	59 40	59 43	57 41	56 38	56 39	57 38	58 42	57 41	56 37	54 38	55 37	55 40	54 39	53 38	51 36	54 36	54 36	56.1 38.8	
MOUNTAIN VIEW 91	MAX MIN	80 65	74 63	75 63	76 64	75 63	73 64	73 65	79 63	73 62	78 65	82 63	81 62	81 63	74 66	76 66	79 63	77 62	78 63	79 63	78 61	82 68	78 64	76 63	76 62	73 61	73 60	75 63	79 62	81 65	74 62	76.9 63.3	
NAALEHU 14	MAX MIN	73 63	81 65	79 65	73 66	79 66	76 64	78 63	77 65	80 64	79 61	81 63	81 67	80 65	77 66	77 66	80 66	80 67	79 66	80 64	77 64	77 61	81 68	84 64	81 63	80 64	78 63	80 64	78 63	82 65	80 62	79.0 64.6	
OOKALA 223	MAX MIN	80 70	80 68	79 66	78 66	76 67	79 67	78 66	75 67	78 69	78 66	80 66	81 61	80 68	80 71	80 68	80 72	80 68	81 65	80 61	80 61	80 59	80 62	80 63	80 60	78 66	77 66	78 66	77 61	74 66	81 67	78.7 66.9	
OPIMIALE 2 24.1	MAX MIN	79 65	75 62	75 62	78 62	75 59	77 66	81 60	82 62	83 60	74 61	78 59	77 64	81 64	80 61	79 65	80 61	79 61	80 59	79 62	81 63	84 64	84 60	78 60	76 60	79 61	80 61	81 60	82 63	82 62	78 62	79.2 61.8	
PUUKOHOLA HEIAU 98.1	MAX MIN	88 72	89 72	91 75	92 70	90 70	88 72	88 71	89 71	91 70	90 71	91 70	88 73	88 72	87 73	93 75	91 71	91 68	91 68	89 69	90 73	91 69	89 73	91 71	91 70	91 69		90 70	90 70	89.9 71.1			
SOUTH KONA 2-31	MAX MIN	77 62	82 58	70 60	69 60	71 58	74 60	76 57	74 58	76 58	81 59	76 61	79 57	80 59	76 55	78 64	70 61	72 59	72 58	72 61	72 62	77 60	77 62	78 57	74 58	72 56	70 60	76 58	78 61	75 60	75.2 59.6		
UPOLU POINT USCG 159.2	MAX MIN	83 69	84 72	82 65	82 64	81 68	83 67	83 66	82 68	81 69	83 70	84 69	86 70	87 71	85 70	81 71	83 73	84 73	84 68	84 69	85 70	85 70	85 72	82 68	84 69	84 69	83 68	84 69	85 70	85 72	85 71	87 71	83.7 69.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JULY
1979

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN																																	
JOHNSTON IS WSO AP	MAX MIN	85 79	85 79	86 77	84 78	84 77	85 78	85 76	84 74	86 78	85 77	85 79	86 78	85 78	84 77	86 78	86 76	85 76	85 79	86 78	86 76	86 79	85 76	87 78	87 72	84 77	85 77	84 73	84 77	85 74	85 75	85 74	85.0 76.8	
FRENCH FRIGATE SHOALS	MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	86 75	84 72	81 73	85 70	87 73	83 72	81 77	84 77	84 70	84 68	86 73	87 70	85 70	86 72	85 79	86 75	86 72	85 71	85 72	86 76	85 77	85 73	79 74	80 73	80 77	81 75	81 75	81 75	81 75	81 72	82 69	82 76	83.5 73.3
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	83 77	84 77	80 76	81 76	83 77	83 77	82 77	84 77	83 78	84 78	82 76	84 77	84 78	84 77	84 75	83 76	84 76	87 77	88 77	84 79	87 76	81 75	85 76	84 75	83 78	86 79	84 78	81 76	84 75	85 76	85 75	83.7 76.7	
CLARK AFB LUZON	MAX MIN	90 75	91 79	86 79	84 77	82 77	88 77	86 75	86 75	82 75	88 75	90 75	91 79	91 73	86 75	90 73	90 77	91 79	91 79	91 77	91 73	88 75	90 79	90 77	88 73	88 77	88 73	82 77	86 75	81 75	86 73	86 75	87.5 75.8	
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	86 76	87 75	84 71	84 76	85 75	87 73	88 74	87 71	88 72	88 75	88 70	90 69	90 71	89 72	87 73	91 70	89 70	90 70	89 72	86 74	89 73	81 73	88 74	86 70	83 75	85 74	85 76	81 71	85 70	86 73	88 72	86.8 72.6	
INARAJAN - NASA	MAX MIN	88 72	89 75	88 79	88 77	88 77	88 77	87 75	88 75	88 72	88 75	88 75	88 79	88 73	88 72	89 72	88 71	88 74	89 74	88 74	88 73	88 77	86 73	88 73	88 74	88 73	88 77	88 73	88 77	88 78	89 75	87 74	88.0 73.9	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	90 80	91 80	90 76	92 81	91 78	91 79	91 79	91 75	91 78	92 79	92 80	92 80	92 80	93 81	92 80	93 81	94 82	89 77	91 80	92 80	92 79	93 80	93 78	91 74	93 80	92 78	89 78	91 77	91 78	89 77	91.5 78.9		
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	87 72	89 75	87 80	84 73	82 75	89 75	89 78	89 77	87 75	85 72	88 75	86 78	88 73	89 74	90 76	87 75	89 76	88 76	88 75	89 75	87 75	81 72	87 76	87 74	87 73	85 74	86 76	88 75	88 75	87 74	87 75	87.1 75.0	
KWAJALEIN MISSILE RGN	MAX MIN	86 76	86 76	88 77	87 77	82 75	88 79	89 80	88 80	88 80	88 80	88 77	88 77	87 77	88 80	88 76	88 79	87 79	87 77	87 77	86 80	88 77	86 75	88 75	88 76	88 80	88 78	81 74	88 78	87 77	88 79	88 76	87.2 77.7	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	86 74	86 74	87 76	85 75	87 74	87 78	87 75	87 79	87 76	88 79	87 76	87 74	88 76	87 77	86 76	87 75	87 75	87 78	88 78	88 77	88 77	86 77	82 74	88 77	87 80	84 75	86 75	87 77	87 77	87 76	87 78	86.7 76.3	
METALANIM	MAX MIN	88 72	88 74	88 76	90 72	90 70	84 76	88 72	90 70	87 74	89 70	80 71	82 70	88 72	87 74	86 70	89 72	89 69	89 70	89 71	85 71	86 71	87 71	89 69	88 71	88 73	89 72	87 70	86 71	89 71	88 70	87.5 71.5		
PONAPE WSO	MAX MIN	91 74	87 74	88 75	89 73	91 73	91 74	89 73	91 73	91 78	90 74	91 73	91 74	91 71	91 71	90 74	89 73	91 73	90 72	91 72	85 73	91 74	91 72	91 73	89 74	81 73	89 72	89 73	91 74	90 72	92 75	87 75	89.6 73.2	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	82 74	87 75	80 74	88 77	86 76	88 76	88 75	89 78	89 77	87 76	89 77	90 76	89 76	89 78	86 77	90 77	89 76	89 76	89 75	87 75	84 74	89 77	88 75	89 76	87 74	87 75	89 76	87 76	90 79	86 77	90 74	87.6 75.9	
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	86 73	88 74	87 72	81 72	86 74	82 73	88 73	90 76	87 75	86 74	87 73	88 75	87 74	88 73	88 73	88 76	87 75	88 74	88 74	87 75	88 74	82 73	88 74	89 74	85 73	84 70	83 72	87 74	86 73	87 72	88 76	86.5 73.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JULY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
* * *																																	
ISLAND OF KAUAI																																	
LIMUE WSO AP 1020.1	EVAP	.24	.30	.46	.42	.39	.31	.37	.32	.55	.35	.37	.30	.32	.32	.39	.34	.36	.36	.39	.39	.45	.29	.34	.42	.38	.39	.44	.44	.47	.32	.38	11.57
	WIND	248	275	289	249	228	263	290	229	178	162	134	84	111	112	167	208	207	207	168	185	194	204	271	298	247	290	245	252	222	182	162	6581
	MAX	79	80	81	81	82	84	84	84	86	86	86	85	86	88	90	87	85	87	87	88	87	86	85	83	83	83	83	84	86	84	87	84.7
	MIN	67	65	63	63	65	64	63	61	64	63	61	60	61	64	67	66	66	63	64	64	65	68	65	65	65	64	64	65	64	66	65	64.2
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.63	.75	.75	.75	.75	.75	.46	.75	.75	.75	.75	.80	.65	.75	.68	.45	.55	.60	.55	.73	.73	.68	.82	.75	.75	.61	.75	.66	.75	.75	21.60	
	WIND	24	50	40	32	28	35	31	31	24	19	20	24	28	23	31	24	26	24	16	18	25	24	33	36	26	29	32	24	22	23	22	844
	MAX	84	91	87	90	90	90	86	90	91	95	95	93	93	93	86	90	86	84	86	87	91	85	90	90	87	88	89	91	92	93	89.5	
	MIN	68	66	65	65	65	66	66	65	68	65	64	64	66	67	69	68	70	65	64	64	64	64	65	65	65	65	65	65	67	67	67	65.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JULY 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
• • • EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.36	.40	.37	.25	.32	.31	.34	.35	.48	.30	.34	.24	.37	.38	.32	.36	.31	.39	.22	.37	.40	.35	.39	.30	.41	.35	.38	.39	.38	.38	.53	11.04	
	WIND	229	222	215	192	169	169	166	196	160	151	179	144	93	95	158	202	162	158	119	162	188	197	164	197	219	178	193	185	213	206	207	5488	
	MIN	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PAGO PAGO WSO AP	EVAP	.18	.21	.14	.13	.15	.07	-	.29	.24	.12	-	.13	.14	.12	.24	.05	.10	.11	.22	.25	.21	-	-	-	-	.29	.36	.25	.25	.13	5.668		
	WIND	75	54	53	27	33	40	•	320	101	35	99	32	30	45	153	94	48	30	76	134	108	222	204	262	230	213	271	264	243	217	183	3896	
	MAX	90	94	82	88	92	92	83	88	90	87	89	95	91	91	92	93	95	90	94	93	90	83	84	86	88	90	80	83	81	83	81	88.3	
	MIN	73	72	72	69	73	70	71	72	70	67	72	69	70	69	71	71	72	68	70	70	75	70	70	71	71	71	71	68	69	66	74	70.5	
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM WSO	EVAP	.26	.25	.21	.17	.15	.19	.24	.22	.29	.28	.30	.30	.31	.32	.08	.25	.13	.30	.24	.22	.11	.10	.22	.12	-	.15	.31	.17	.10	.19	.05	6.448	
	WIND	133	140	242	237	127	55	27	68	88	101	46	34	30	44	29	22	33	61	97	91	51	42	39	35	94	115	81	48	57	100	112	2474	
	MAX	88	87	82	84	87	93	90	91	95	91	93	93	89	90	87	95	89	92	88	92	90	84	92	92	86	87	84	80	90	85	90	88.9	
	MIN	71	72	72	73	72	72	75	72	70	72	70	70	71	71	73	70	71	71	71	71	72	71	71	70	70	72	72	72	71	68	72	72	71.4
• • • CAROLINE AND MARSHALL ISLANDS																																		
YAP WSO AP	EVAP	.18	.18	.04	-	.07	.06	.10	.27	.16	.18	.30	.23	.59	.22	.23	.23	.22	.23	.09	.18	.19	.05	.16	.18	.09	.09	.02	.21	.23	.21	5.558		
	WIND	36	96	74	240	194	111	63	52	35	75	94	86	51	33	39	44	27	26	32	50	64	50	78	22	44	88	96	54	80	38	57	2097	
	MAX	90	93	89	79	87	83	96	98	90	89	96	95	97	98	97	98	99	94	90	94	93	90	92	99	92	83	80	95	93	94	96	92.2	
	MIN	75	75	77	72	74	74	73	77	76	75	74	75	74	76	77	77	77	77	77	76	75	75	74	75	76	74	73	74	76	75	75	75.2	

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAOHOLA 1114	A 0145	01	KAWAIIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOAHULUHULU 1075	3099	03	WAIIMEA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI		21 52	159 27	52	7A	7A			CLOSED 6/30/79
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU		22 11	159 23	560		8A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA		22 02	159 44	1250	5A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSFO AP 703	1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					KAILUA FIRE STATION BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			
KANEOME MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240					
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A		CHARLES COOKE LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB	
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A		CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII	
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO		21 35	157 54	20					
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690		8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALEE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL	
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALEE 896.3	9190	01	KOOLAUPOKO		21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A			
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			
WAIKAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A		U H WAIMANALO EXP FARM U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY	
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120					
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330					
WAIKAWA 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
KALAPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A		KALAPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD	
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140					
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825					
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070					
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI		U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A U S D A KOELE COMPANY KOELE COMPANY	
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A			
LANAIHALE 684	A 5301	01	LAHAINA		20 49	156 53	3370		WI			
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULO MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	7A	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAOHOLU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHANE 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEHU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	0150	02	HILO		19 44	155 09	1490		8A			MAUNA KEA SUGAR CO
HAINA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID			NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HONANUA 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIKAWI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500					PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30	7A				FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	5761	02	HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7F			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHAE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAUUILO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIKOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO		19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUUHONUA O HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4 PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKAKA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			
CLOSED STATIONS												
ISLAND OF KAUAI												
KOLOA LN (MAK) 940.1	4748	01	KAUAI		21 52	159 27	52	7A	7A			CLOSED 6/30/79
NEW STATIONS												
ISLAND OF MOLOKAI												
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	KALUA KOI GOLF COURSE

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	SP	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINCAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	SP	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- * And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WL Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

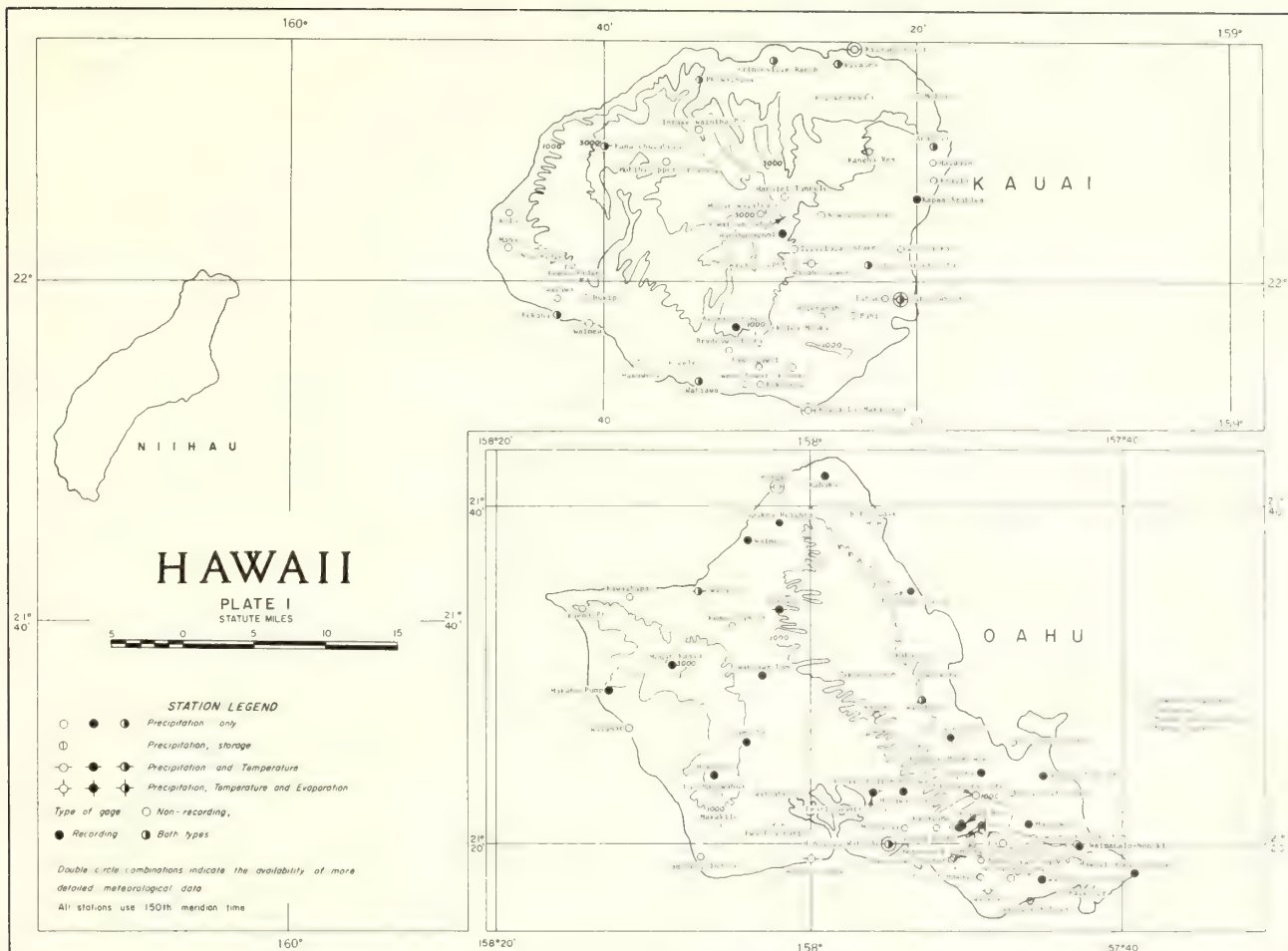
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

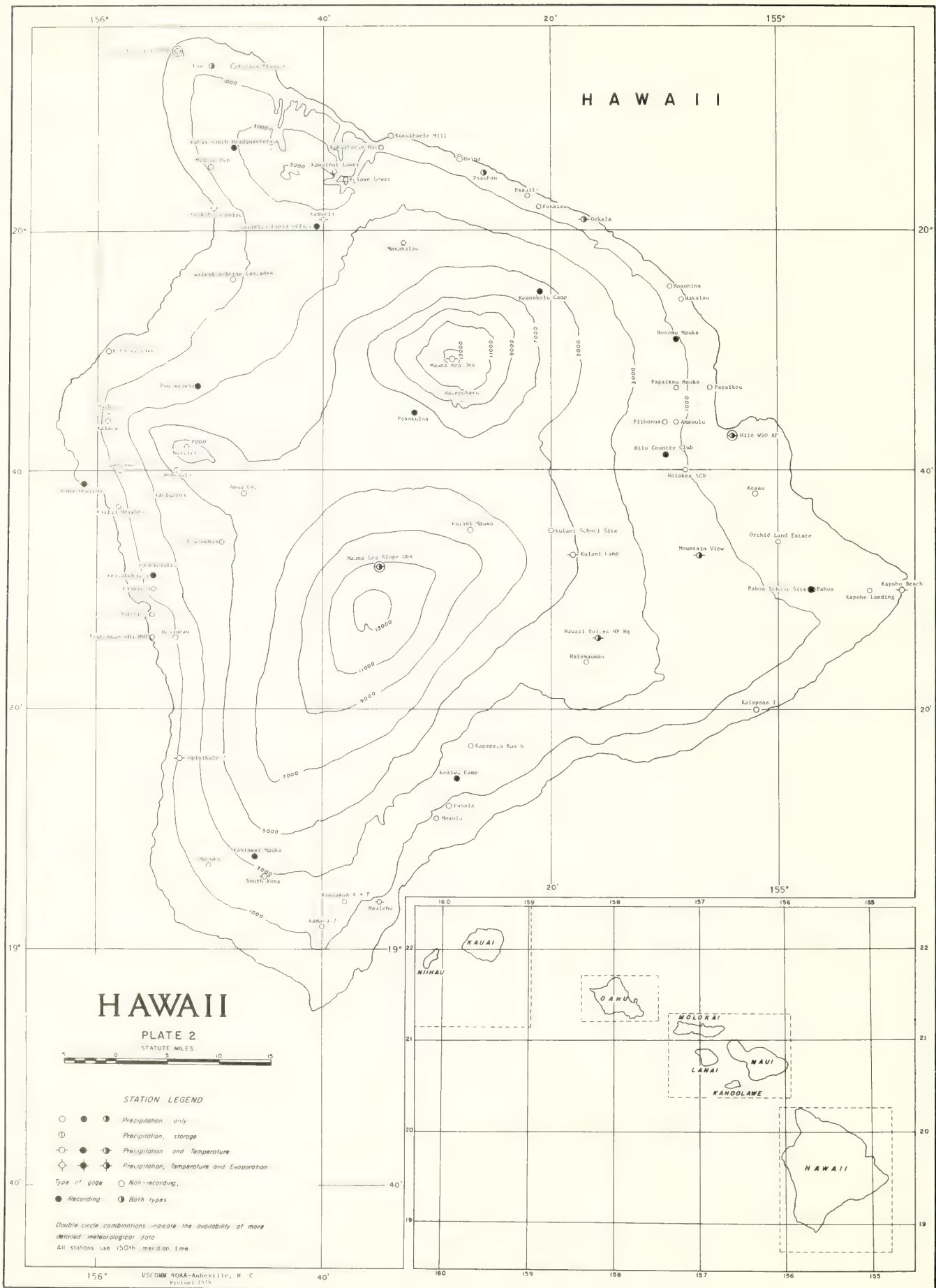
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

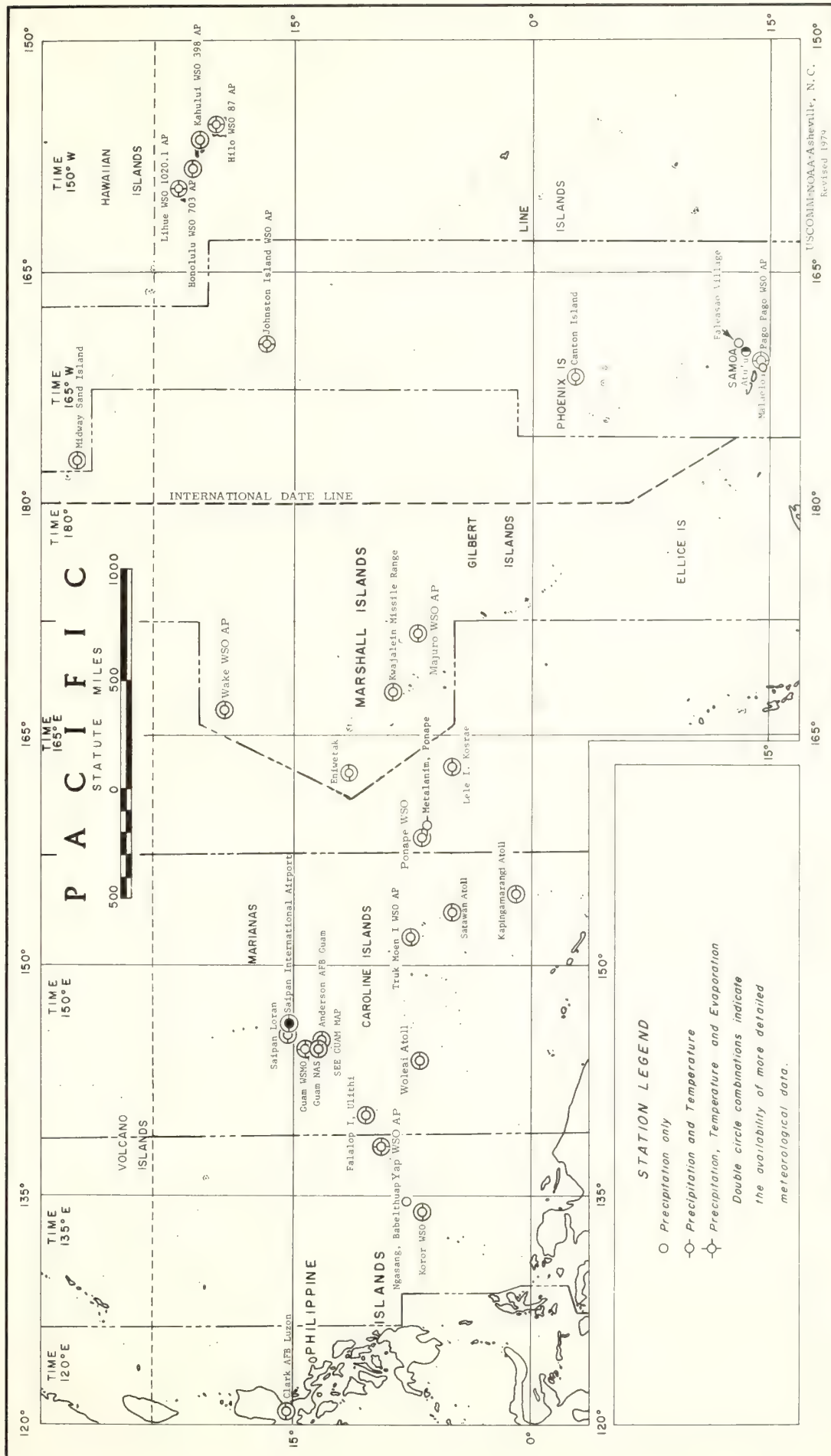
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

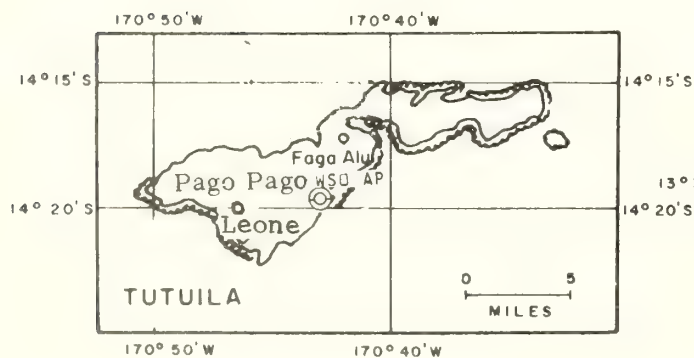
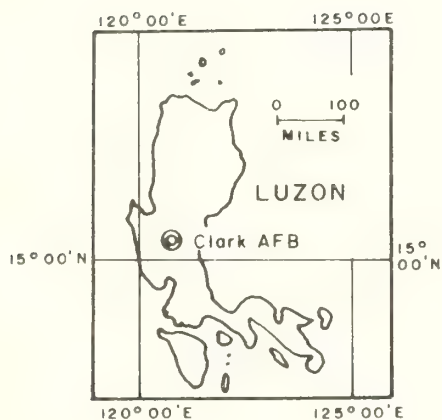
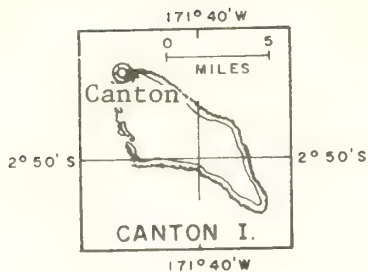
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

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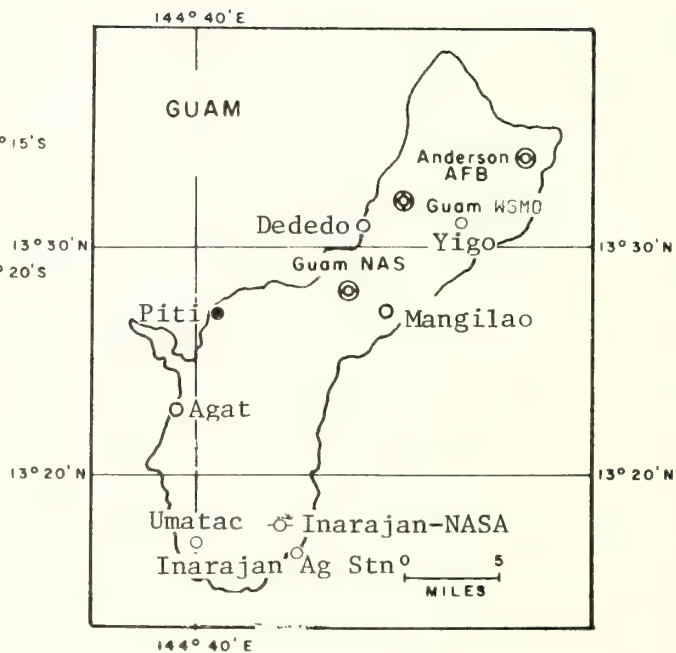


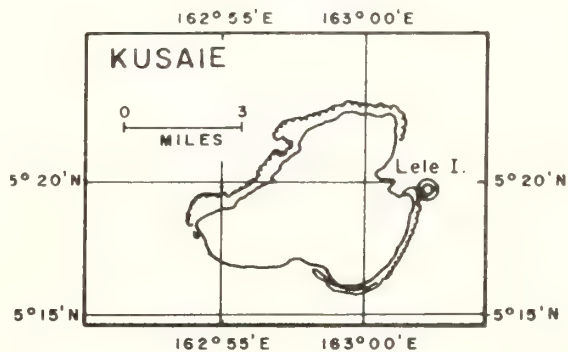
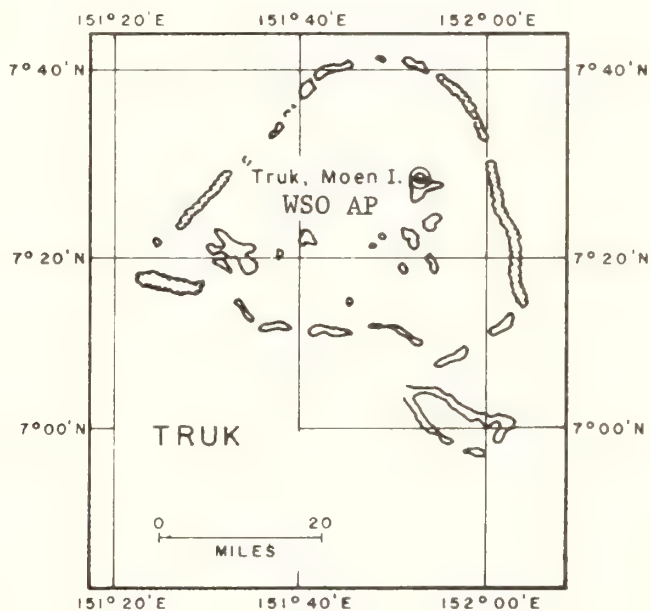
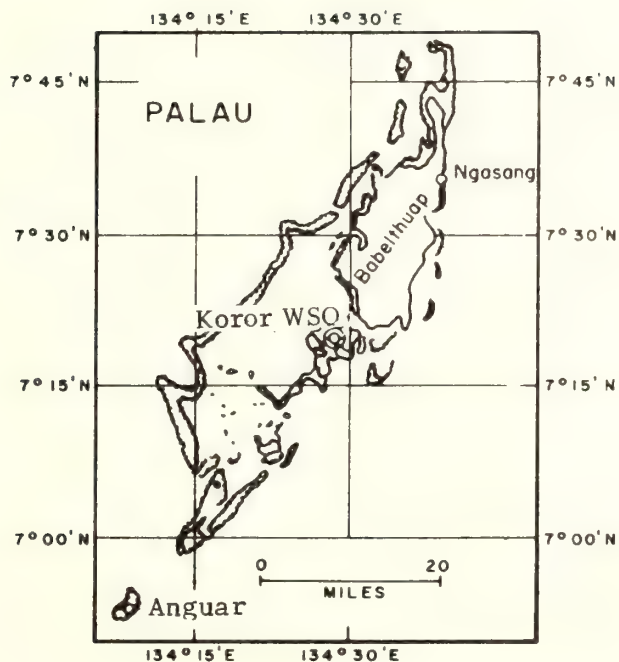
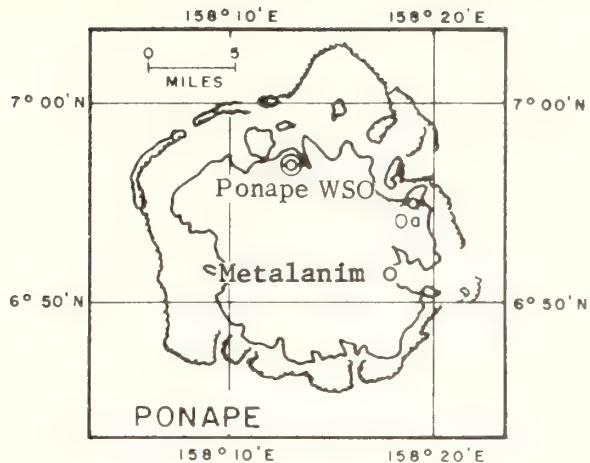
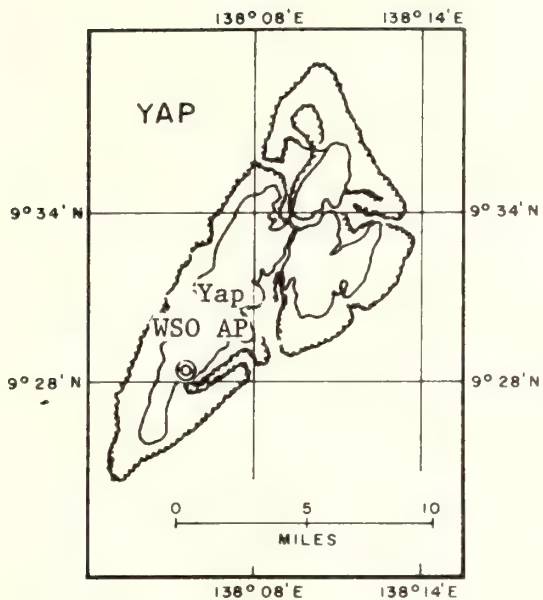




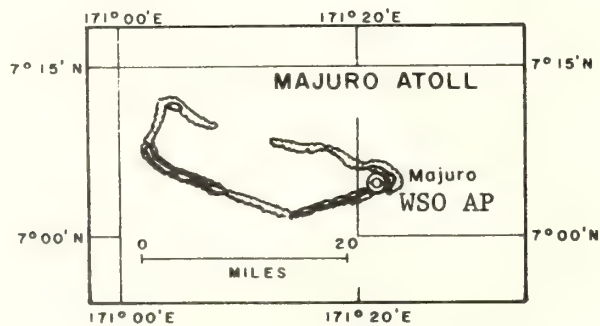
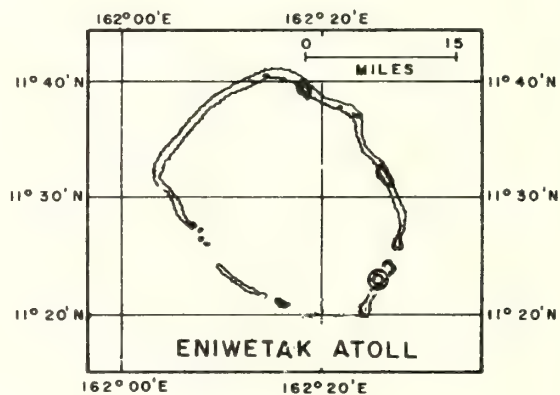
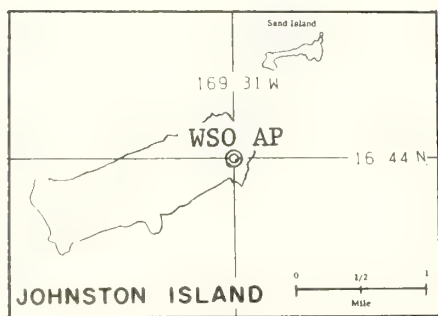
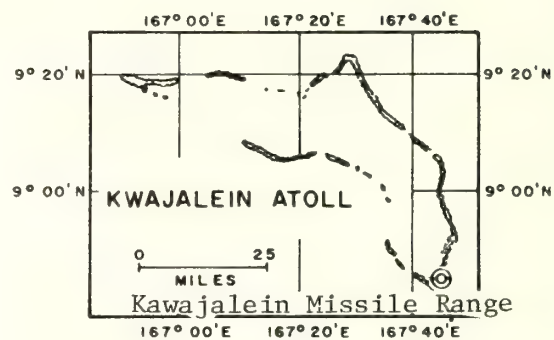
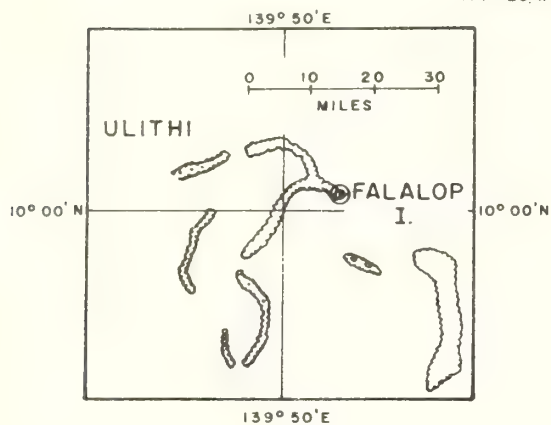
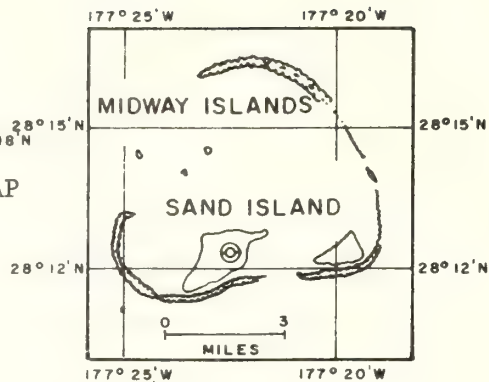
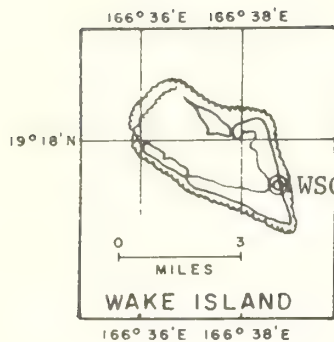


Reef





— Reef



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THIRD CLASS
BULK RATE

Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: ALOHA STADIUM-HALAWA OAHU 97 DATE 29
 LOWEST TEMPERATURE: MAUNA KEA OBS 111.2 HAWAII 17 DATE 19
 GREATEST TOTAL PRECIPITATION: N WAILUA DITCH 1051 A KAUAI 12.62
 LEAST TOTAL PRECIPITATION: 7 STATIONS .00
 GREATEST 1 DAY PRECIPITATION: N WAILUA DITCH 1051 KAUAI 4.22 DATE 16

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE TENTHS	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	43	SE	17		79	79	94	0	10	5	3	4	1	23	37	8.7	
HILO WSO 87 AP	10	0.4	5.1	16	E	30	87	78	71	84	3	5	10	1	1	1	21	56	6.3	
HONOLULU WSO 703 AP	7	9.6	11.8	25	NE	04+	80	72	55	73	8	1	1	0	0	0	10	77	4.9	
JOHNSTON WSO AP	8	14.4	15.2	32	NE	01	84	83	75	82	13	9	2	0	0	0	24	86	5.3	
KAHULUI WSO 398 AP	5	11.3	12.5	28	NE	03	-	71	53	73	2	3	1	0	0	0	6	80	4.0	
KOROR WSO	23	4.1	7.7	20	NW	18	83	-	79	75	4	3	11	1	4	1	24	50	8.8	
KWAJALEIN MISSILE RGN	14	3.4	9.6	35++	12	25	85	86	78	80	5	4	7	5	5	1	27	-	7.8	
LIHUE WSO 1020.1 AP	6	8.5	10.5	21	NE	04	85	83	64	77	4	14	2	1	0	0	21	79	5.0	
MAJURO WSO AP	12	2.6	7.6	30	E	08	83	83	76	78	2	8	7	6	2	1	26	59	8.3	
PAGO PAGO WSO AP	11	7.2	10.8	26	SE	06	85	86	73	81	6	7	5	1	1	1	21	58	6.1	
PONAPE WSO	-	-	-	17	NW	12	92	-	77	81	1	10	6	2	5	3	27	33	8.4	
TRUK MOEN I. WSO AP	27	6.2	10.6	38	W	06	89	-	79	78	3	5	3	4	7	4	26	44	9.0	
WAKE ISLAND WSO AP	10	7.9	10.5	40	SE	19	88	89	77	79	6	6	9	1	2	2	26	51	7.8	
YAP WSO AP	26	4.4	7.8	28	N	15	90	-	81	78	2	3	10	4	7	1	28	43	9.3	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Samuel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
AUGUST 1979

STATION	TEMPERATURE										PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS		
								32° OR BELOW	32° OR BELOW	32° OR BELOW	32° OR BELOW				TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
HAWAII																				
ISLAND OF KAUAI																				
ANAHOLA 1114	A	73.6	53.5	63.6	79 31	44 9		0	0	0	0	2.27	1.15	10	.0	0		1	1	0
KANALOHULU 1075		87.0M	73.3M	80.2M	92 27	70 10+		2	0	0	0	1.65	.50	17	.0	0	5	1	0	0
KILAUEA POINT 1133												2.88			.0	0				0
KOOLA 936	A											2.35			.0	0				0
LIMU WSO AP 1020.1	//R	85.7	72.5	79.1	.0 88 31	66 9+		0	0	0	0	1.86	-.33	.86	16	.0	0	3	1	0
MANA 1026												.39	-.38	.32	17	.0	0	1	0	0
N WAILUA DITCH 1051	A											12.62		4.22	16	.0	0			3
PH WAINIHA 1115												5.57	-3.13	1.75	16	.0	0		2	0
PUEHU RIDGE 1040												2.39	.72	.94	17	.0	0	5	2	0
WAIHANA 930	A											.35	-1.88		.0	0				0
WAIHI LOWER 1054		81.1	64.5	72.8	86 16	59 9		0	0	0	0	6.89	-3.99	2.19	16	.0	0	14	4	1
WAIKOA 947		88.2M	69.7M	79.0M	92 5	67 26						.08	-.69	.05	11	.0	0	0	0	0
ISLAND				74.9								3.28			.0					
ISLAND OF OAHU																				
ALOHA STADIUM-HALAWA	M	71.9M	M		97 29	69 9+		0	0	0	0	.38			.0	0		0	0	0
B Y U LAIE 903.1		84.6	73.9	79.3	86 31	69 9+		0	0	0	0	2.10	.55	16	.0	0	7	1	0	0
HONOLULU OBSERV 702.2		89.1	69.1	79.1	92 31+	65 7+		16	0	0	0	.21	.12	14	.0	0		1	0	0
HONOLULU WSO AP 703	R	88.6	72.2	80.4	92 31+	68 26+		9	0	0	0	.15	-.61	.10	2	.0	0	1	0	0
KANEONE MAUKA 781		83.3	73.4	78.4	86 29+	71 6		0	0	0	0	5.04	1.09	1.72	9	.0	0	13	1	1
KOOLAU DAM 833	A											3.75	.62	2	.0	0	10	3	0	0
MANOA LYON ARBORETUM		81.6	69.6	75.6	86 10+	68 28+		0	0	0	0	7.91	1.33	16	.0	0	14	5	2	0
NUUANU RES 4 783												5.06	-3.94	.96	15	.0	0	14	4	0
OPAEULA 870	A	84.7	68.1	76.4	92 28	65 26+		1	0	0	0	7.64	-2.90	1.32	2	.0	0	16	6	2
PALO VALLEY 718	R																			
WAIHOLE 837	A											9.40	1.62	16	.0	0				
WAIKALEE 896.3		85.0	73.0	79.0	89 31	70 23+		0	0	0	0	.49	.15	14	.0	0	3	0	0	0
WAILUA 847	A	87.5	66.1	76.8	93 31	62 26+		8	0	0	0	.30	-.96	.09	6	.0	0	0	0	0
WAIKIKI 717.2		89.5	69.5M	79.5M	92 17	62 9		18	0	0	0	.09	.04	3	.0	0	0	0	0	0
WAIMANALO EXP FM 795.1												.96	.33	3	.0	0	4	0	0	0
WAIPIAHU 750	A											.12	.06	3	.0	0	0	0	0	0
ISLAND				78.3								2.91			.0					
ISLAND OF MOLOKAI																				
MOLOKAI AP 524																				
ISLAND																				
ISLAND OF LANAI																				
LANAI CITY 672	A	77.7	65.3	71.5	82 28	63 27+		0	0	0	0	2.64	1.01	1.15	15	.0	0	2	1	1
ISLAND				71.5								2.64			.0					
ISLAND OF MAUI																				
HALEAKALA EXP FARM 434	A	66.6M	46.3M	56.5M	72 4	39 26		0	0	0	0	1.19	.43	15	.0	0	4	0	0	0
HALEAKALA R S 338		83.7	71.7	77.7	87 12	68 27		0	0	0	0	.61	-2.66	.30	16	.0	0	2	0	0
HANA AIRPORT 355	A											3.38	.74	15	.0	0	9	2	0	0
HONOKOHU 493												3.47	1.10	16	.0	0	3	1	1	0
KAAHAPALI AP 453.1		88.5M	69.1M	78.8M	93 24	66 28+		3	0	0	0	.12	.06	16	.0	0	0	0	0	0
KAHALU WSO 398 AP	R	90.0	70.9	80.5	1.7 94 18	65 28		15	0	0	0	.23	-.11	.12	15	.0	0	1	0	0
KAILUA 446		79.2M	68.0M	73.6M	.3 83 12	63 22		0	0	0	0	7.65	-3.58	2.05	15	.0	0			3
KEANAE 346	A											11.10			.0	0				
KIPAHULU 258												3.70	-3.96	.41	21	.0	0	16	0	0
KULA HOSPITAL 267		75.7	57.0	66.4	.1 79 31	54 7+		0	0	0	0	.73	-1.34	.26	30	.0	0	3	0	0
LAHAINA 361		88.5	68.6	78.6	.6 92 28	66 21		5	0	0	0	.00	-.33	.00		.0	0	0	0	0
PAIA 406												.56	-1.11	.18	16	.0	0	2	0	0
WAILUKU 386	A											.60	-.17	.29	15	.0	0	2	0	0
ISLAND				73.2								2.56			.0					
ISLAND OF HAWAII																				
HAWAII VOLCNS NP HQ 54	R	74.2	55.0	64.6	1.4 80 31	51 28+		0	0	0	0	2.55	-4.65	.56	15	.0	0	8	2	0
HILD WSO AP 87	A	83.4	67.8	75.6	88 15	64 2		0	0	0	0	7.04	-3.84	2.19	15	.0	0	13	3	2
HUENUE 92.1												2.65	2.26	20	.0	0	2	1	1	1
KAINALU 73.2		79.8	65.6	72.7	83 17+	63 7+		0	0	0	0	9.68	1.54	1.15	20	.0	0	18	7	4
KAPOHO BEACH 93.11		89.2M	70.5M	79.9M	94 30+	67 2		11	0	0	0	.36	.36	15	.0	0				0
KEARU 92												7.06	1.79	16	.0	0				2
KONA KAILUA 68.3	A	86.8M	72.9M	79.9M	90 15	69 2		1	0	0	0	5.34	-.33	1.49	15	.0	0	12	3	1
KUKUIHALE HIC 199		68.4M	51.5	60.0M	75 14	42 27		0	0	0	0	3.13	1.27	16	.0	0	9	1	1	1
KULANI CAMP 79												.90	.23	9	.0	0				0
PAHALA 21	A																			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
AUGUST 1979

STATION	TEMPERATURE										PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS		
										MAX.	MIN.	TOTAL	DATE					TOTAL	DATE	1.00 OR MORE	.50 OR MORE	
																						29° OR ABOVE
HAWAII	90.8	71.3	81.1		94	5	68	7		29	0	0	0	.83		.64	17	.0	0	1	1	0
PUUKOHOLA HEIAU 98.1	77.2M	59.7	68.5M		83	15*	56	25*		0	0	0	0	3.19		.94	1	.0	0	6	3	0
SOUTH KONA 2.31														7.64		1.13	14	.0	0	12	6	2
WAI'AKEA SCD 88.2																						
ISLAND			72.8											4.37				.0				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
AUGUST 1979

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
											80° OR ABOVE	32° OR BELOW	32° OR BELOW	0° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
AUGUST 1979

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	2.27				x	x	.11	.06	.10		1.15	x	x	.06			15	09							.03	.02	.01	x	x	.09	.1	.27	.05
BAVDESWOOD STA 905	A	1.76	.09	.07	.01	x	x	.15	.01	T		.56	x	x	.02			16	33						.03	.02	.01	x	x	.07		.19	.02	
EAST LAHAI 934	A	1.86	.08	.12	.05	x	x	.20	.04	.02	.01		x	x	.46	.01	.01		35	10				.10	.03	.01	x	x	.07		.07		.19	
ELEELE 927	A	.24	.03	.02		x	x	.01	.02						T				02	10													.07	T
HALEAULA 1110	A	1.86	.03			x	x	.11	.04	.13		.72	x	x	.07	.02			32	15												.24	.03	
HALENAHANA 1006	A	3.53	.09	.07		x	x	.40	.13	.06		.14	x	x	.53		.09		76	61				.03	.11	.05	x	x	.13		.17	.08	8.46	
HALEALEI TUNNEL 1053	A	8.40		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HUKIPO 945	A	.26																.09	.17															
ILILIULA INTAKE 1050	A	8.29	.13	.21	.91	x	x	.79	.11	.16	.06	.76	x	x	.66	.09	.06		2.56	1.03	x	x	14		.02	.09	.02	x	x	.01	.23	.05	.11	.04
INTAKE WAHIAHIA PC 1086	A	3.28		.40	x	x	x		.38	x	x		x	x	.43	x	x		1.75															
KANALOHULULU 1075	A	1.65	.08	.12		x	x	.40	.34	.18	.07	.05		.03	.03			39	50	.20														
KANEHA RESERVOIR 1092	A	6.65	.02	.06	.04	x	x	.40	.34	.18	.07	.05		.03	.03			1.25	.83															
KEALIA 1112	A	2.21		.10		x	x	.09	.07	.02		1.00	x	x	.30				.27	.05														
KEKAHA 944	A	.34																.04	.30															
KEKAHA 1134	A	3.29	.14	.13	.21	.09	.01		.01	.05		.12	.16	.08	.05			1.59	.11															
KILAUEA POINT 1133	A	2.88		.13	.07			.24			.55		.10	.16	.06	.05	x		.82							.01	.13							
KILO 1033	A	.29																.07	.22															
KILOA 936	A	2.35	.15	.12	.04	x	x	.47	.04	.15		.05	x	x	.33		.07		.44	.13						.01	.03							
KILOA MAUKA 904	A	3.50	.14	x	x	x	x	x	.46	.02	x	.05	x	x	.42	.48	.06		x	x	x	x	1.88		.05	x	x	x	x	.30				
KILOA RES 1137	A	3.35		.07	.17	.23			.17			.51	.06	.24	.02			1.38	.12							.02	.03							
KUKUIULA 935	A	.74	.06	.11	.01	x	x	.09			.03	.04			.02		.01		.11	.17						.04	.01	x	x	.01		.18	.02	
LIHUE VARIETY ST 10621	A	4.72	.10	.05	.22	x	x	.30	.18	.15		.04	x	x	.36			2.00	.30			.04			.02	.18	x	x	.35	.20		.19	.04	
LIHUE WSO AP 1020.1	A	1.89	.17	.05		.05	.02	T	.02			.09	.01		.03	.06	.08		.88															
MAKAHELI 965	A	.12	.01									.02						.02																
MAHA 1026	A	.39									.05							.02	.32															
MAHINI UPR CROSS 1083	A	.82			.09						.14							.24	.05	.05	.05													
MALOAA 1145	A	1.75	x	x	x	x	x	x	.10	x	x	x	x	x	x	.87	x	x	x	x	x	x		.44	x	x	x	x	x	x	.34	x	x	
POINT WAIALALE 1047	A	.29																																
NIU RIDGE 1035	A	.37	.13															.03	.14															
N WAIALA DITCH 1051	A	12.62	.10	.15	.80	x	x	.74	.07	.12	.08	1.53	x	x	.85	.04	.02		4.22	.98	x	x	.28	.01	.15	.04	x	x	x	x	.11		.26	.06
N WAIALA RIVER 1055	A	7.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.20	
PA WAHIAHIA 1115	A	5.57	.47	.16	.17	x	x	.15	.24	.05		.04	x	x	.18	.13	1.75	1.36							.09	.05	x	x	.44				.28	
PAINEVILLE WANCH 1117	A	6.86	.46	.10	.42	x	x	.16	.43			.03	x	x	.40	.01	3.22	.73							.12	.09	x	x	.25				.42	.02
PUEHU RIDGE 1040	A	2.39			.10	.05						.43						.08	.94															
PUNI 1013	A	3.76	.08	.17		x	x	.36	.07			.22	x	x	.46		.03		1.08	.33					.04	.31	.10	x	x	.14			.37	
WAHIAHIA 930	A	.35	.04	.05														T																
WAHIAHIA LOWER 1054	A	6.89	.09	.35	.26	.33	.21	.11	.13	.27	.01	.59	.13	.52	.16	.01	.02	.18	.04	.03					.08	.06		.02	.06		.07	.20	.04	
WAHIAHIA UPPER 1052	A	7.04	.07	.53	.38	.62	.07	.02	.04	.03	.05	.63	.19	.57	.22	.07	.04		1.78	.87	.06	.04	.01		.01	.12	.10	.04	.07	.02	.17	.01	.07	.14
WAIALA 943	A	.22																.03	.19															
WAIALA KAI 1065	A	2.14	.05	.04	.03	x	x	.12				x	x		.31	.02		.69	.62						.07	.13	x	x	.02				.04	
WAIALA 847	A	.08																.03																
WEST LAHAI 931	A	.55	.10	.05		x	x	.10	T		T				.04			.12	T									x	x	.03				.11
ISLAND OF MAUI																																		
ALBHA STADIUM-HALAWA	A	.38		.06	.08	x	x	.10										T	T															
BECKETTIA PUMPING STA	A	.46	T	.05	.06	x	x	.03										T																
B Y U LAIE 903.1	A	2.10	.10	.14					.10	.07		.12	.02	.08	.05	.05	.32		.55	.01	T	T												
CAMPBELL IND PK 702.5	A	.03			.03																													
COBBRUT ISLAND 840.1	A	2.62	.01	.03	.14	x		.15			.20	.76					.11	.15	.06															
ELA PLANTATION 741	A	.09			.05																													
HONOLULU OBSERV 702.2	A	.21	.01	.01	.05						.01							.12	T															
HONOLULU WSO AP 703	A	.15	.05	.10	T	T	T	T										.01	.02			T												
KAHANA POINT 841.3	A	.34	.06	.10		T	T	.01										.01	.02															
KAHANA 885	A	17.93	x	x	x	x	x	3.28	x	x	x	x	x	x	3.28	x	x	x	x	x	x	9.73	x	x	x	x	x	x	x	x	x	x	x	x
KALAHAI RES SITE 777	A	4.08	.34	.60	.48	.02	.32	.22	.18	.02		.06			.18	.78	.68									.24	.16	.10	.14	.16		.28	.02	
KANEHAE MAUKA 781	A	5.04	.08	.32	.02	.39			.03	.172		.29	.04		.11	.35	.37	.13								.08	.23	.10	.26		.22	.27	.03	
KAPALAPA 775	A	1.19	.10	.23	.17	x	x	.15							.05	.05	.18									.01	.03	x	x	.11	.08	.03		
KAWAIIHAKI 841	A	.67				x	x	.02										.17	.03															
KEMBO CAMP 855	A	.35	.03	.02		x	x	.05				T	.02		T	.02		.09																
KILOAU DAM 833	A	3.75	.10	.62	.25		.28	.12			.04	.50	.08				.50	.35	.30							.09	.06</							

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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
MAIHEKAUA 685	A	1.03																															
ISLAND OF MAUI																																	
AUNAHU 252	A	27	x	x	x	x	x	27	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MAIHEKAUA 477	A	5.20																															5.20
MAIHEKAUA EXP FARM 434	A	1.19	15	05	01		.08	.15								.43	.23														.04	.05	
MAIHEKAUA RANCH 432	A	21	x	x	x	x	x	x	x	x	x	x	x	x	x	.21																	
MAIHEKAUA R 5 338	A	61	01	T		T										.09	.30	x	.01						.01								
MAIHEKAUA 423	A	.83		10			x	.24								.17	.25																
MAIHEKAUA 485	A	2.18	02	08		11	.26	.55								.07	.02	.74															
HANA AIRPORT 355	A	3.38	.09	.07	.15		.16	.02	.03							.48																	
HANALUA CABIN 259.5	A	76	x	x	x	x	x	.20	x	x	.01	x	x	x	x	.48																	
HONOKAHU 480	A	7.80	x	x	x	x	x	x	x	x	x	x	x	x	x																	7.80	
HONOKAHU 493	A	3.47	.05	.10		.06	x	.20	.50							.25	.30	1.10				.05		.06	.12	.12					.06	.50	
HONOLUA FIELD 48 404	A	2.78	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.78	
HONOKAHU GULCH 341	A	2.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.80	
KAHANAPALI AP 493.1	A	.12	T			.01	.02										.06															.03	
KAHOMA INTAKE 374	A	2.95	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.95	
KAHULUI 450 308 AP	A	23	.01			.03										.12																.07	
KAILU 446	A	7.65	.23	.25	.42		x	.74	1.13							.15	.52	2.05	1.07	.05												.42	.01
KAILUA INTAKE 375	A	74	x	x	x	x	x	x	x	x	x	x	x	x	x	.09															.11	x	
KAHANA 410	A	20	T			.01	.09									.05	.05																
KEANAE 346	A	11.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.10	
KEANAKAPU BEACH 260 2	A	73																															
KIHEI 311	A	7																															
KIPAHULU 258	A	3.70	.10			x	x	.20	.30	x	.16		.21	.27		.36	.20	.12	x	x	x	.33	.41	.26	.15					.10	.17	.27	.08
KUKUI 380	A	14.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	14.00	
KULA BRANCH STN 324.5	A	07																															
KULA HOSPITAL 267	A	73																															
LAHAINA 361	A	00																															
LAUNIPUPOKA INTAKE 376	A	1.37	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.37	
LAUNIPUPOKA VILLAGE 372	A	.00																															
LUPU UPPER 442	A	8.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.80	
MAIHEKAUA 466	A	1.14	x	x	.02		.26									.02		.72														.12	
MAIHEKAUA 475	A	4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.10	
MAIHEKAUA FIELD 60 497	A	3.36	.13	x	x	x	.57									1.20	x	x	x	x	.27	x	x	x	x	x	x	x	x	x	x	x	
MAIHEKAUA 332	A	3.73	1.15	x	x	x	x	x	.87	x	x	x	x	x	x	.85	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.40	
MAIHEKAUA 286 1	A	.00																															
MAIHEKAUA 350	A	10.70	x	1.03	x	x	1.21	.09	x	x	.48	x	x	.43	x	4.10	x	1.70	x	x	x	x	x	x	1.15	x	x	.15	x	x	x	.45	
MAIHEKAUA 406	A	.56	.02	.07	.01	.01	.06									.12		.18														.09	
MAIHEKAUA 250.2	A	.20	x	x	x	x	x	x	x	x	x	x	x	x	x	.07																.20	
MAIHEKAUA BRIDGE 307 2	A	.18														.07																	
MAIHEKAUA SPRINGS 267.2	A	1.82	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.82	
MAIHEKAUA 343	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
MAIHEKAUA 386	A	.32														.06	.15															.10	
MAIHEKAUA 400 2	A	.00	T	.02		T	.01									.09	.19																
MAIHEKAUA 261.3	A	.00																															
MAIHEKAUA 333	A	1.88	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.88	
MAIHEKAUA 301	A	.00																															
MAIHEKAUA RANCH 250	A	1.57	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.01	
MAIHEKAUA 364	A	.03																															
MAIHEKAUA CAMP 484	A	.72														.15	.32															.25	
MAIHEKAUA VALLEY 482	A	1.19	x	.09	x	.05	.04	.07	x	x	.06	.21	x	.06	.21	.38																.30	
MAIHEKAUA 440	A	8.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	9.70	
MAIHEKAUA 380	A	.60														.29	.08															.20	
MAIHEKAUA 386	A	.00																															
MAIHEKAUA RANCH 256	A	.00																															
ISLAND OF HAWAII																																	
MAIHEKAUA 75	A	2.65	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.65	
MAIHEKAUA 88.2	A	3.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
MAIHEKAUA 214	A	7.30	.21	.03	.31	.50	.59	.06	.01		.03	x	x	x	x	.61	.02	x	x	x	5.48	x	x	x	x	x	x	x	x	x	x	.03	.08
MAIHEKAUA 142	A	.52														.12	.88	1.28	.30	.20	x	.04		.07	.02	x	x	x	x	x	.33		
MAIHEKAUA 52	A	.83																															
MAIHEKAUA 111	A	2.55	.05	.03	.12	.04	.2																										

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STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
OSCHID LAND EST 91.5	A	7.54	x	x	1.28	x	x	x	x	x	1.46	x	x	x	x	x	3.73	x	x	x	x	x	x	x	78	x	x	x	x	x	x	29
PARAHU 217		3.20	.04	.05	.20	.58	.31	.05						.06	.52	.62	.68															.09
PAWILU 221		2.86			.30	.56	.02							.26	.16	.83	.62															.13
PAWALA 21	A	.90								.23	.01			.01		.01	.08				.22											.01
PAWALA 65		7.78	.18	.15	.88	x	x	.90	.10	.15	.04	.18	x	x	.09	1.08	.61	1.65	.24	x	x	.09		.16	.27	.10	x	x	.25	.15		.44
PAPAIKOU 144.1		6.86	.15	.02	.26	x	x	.56	.25			x	x	.05	1.46	.76	2.48	.15	x	x	.02		.01	.07	.03	x	x	.14		.25		
PAPAIKOU MAUKA 140.1		x	x	x	x	x	1.39	x	x	x	x	x	x	.94	x	x	x	x	x	x	6.20	x	x	x	x	x	x	.22	x	x	x	
PITHONUA 89	A	8.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.30	
PUUKOHOLA HEIAU 98.1		.83													.06		.05	.64										.08				
PUU LEHUA 73	A	2.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.50	
PUUKOHOLA-B-HONANUA		1.89	.17	x	x	.06	.61				.03	.03		.08		.01						17	.32		.09		.10		.30			
SOUTH KONA 2.31		3.19	.94														.42	.25		.02						.07	.03	.76	.16	.63	.35	
UPOLU POINT USCG 159.2		1.61	.16	.04	.11	.08	.35																			.06				.03	.10	
WATAKA SCD 88.2		7.84	.27	.05	.40	.23	.96	.04	.14	.01	.02	.02		.44	1.13	1.02	.96	.81						.08		.06		.02	.32		.86	
WATAKA-B-BOIS CAS 95.8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
ATU L																																	
FALCERAO VILLAGE	R	4.27	.12	-		.04	.62	.53	1.04	.01	.34	.11	.09	.32	.07	-		.08	-	.17	.01	-	T	.38	.11	-	T	.04	.07	.05	-	.01	.06
JOHNSTON IS USO AP		.67	.01	.08	.01	T	T	-	T	-	.02	T	T	T	-	T	-	T	T	-	.03	.01	T	.02	.05	.26	T	-	T	.15	T	.03	-
MIDWAY SAND ISLAND		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MALAELOA		13.06	-	-	5.20	-	T	2.62	1.83	2.00	-	.05	-	-	-	-	-	-	-	-	T	.21	.17	-	.65	-	-	.33	-	-	-	-	
PAGO PAGO USO AP	R	7.19	-	T	2.89	06	45	1.56	.41	.46	-	-	-	T	-	-	T	T	-	.04	.38	.01	.34	.02	.51	T	T	.03	-	.01	.02	-	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
AGAT																																	
ANDERSEN AFB GUAM		13.32	2.11	92	.62	.39	-	.02	.13	.06	.11	.04	3.92	.12	.02	-	.36	1.46	1.42	.18	-	-	.12	-	.04	.02	.40	.24	-	.60	-	-	
CLARK AFB LUZON		28.85	.23	.57	.04	.11	1.01	1.85	2.72	3.27	.21	.06	.14	.06	.04	2.54	7.33	6.21	.65	-	-	.05	T	T	.08	.05	T	1.14	.48	-	-	-	
DEDEO		18.13	.69	80	1.30	.76	.30	.10	2.50	.52	.10	.20	.10	2.00	.20	1.00	.10	.50	2.00	1.80	.10	-	.60	-	.10	.12	1.16	.50	-	.10	.50	-	
GUAM NAS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GUAM USMO	R	12.75	.62	1.49	.80	.19	.01	.02	.08	.08	.07	.3.38	.77	.35	-	.28	1.04	1.74	.16	-	.07	-	.09	.09	.01	1.20	.19	.02	-	-	-	-	
INARAJAN AG STM		15.71	.76	.73	.13	.80	.63	.50	.70	.23	.60	.56	1.00	.10	.29	.23	3.45	.25	-	.39	.80	.39	.09	.80	.16	.21	2.00	-	-	-	-	-	
INARAJAN - NASA		13.47	1.03	.72	.33	.09	.33	.09	.10	.16	.04	1.48	1.35	.48	.51	3.20	1.17	.01	.23	T	.01	T	.37	1.86	-	-	-	-	-	-	-	-	
MANGILAO		12.46	1.36	1.10	-	.29	-	.40	.10	.12	.70	.02	-	-	1.10	1.80	1.80	1.10	1.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAIPAN LORAN		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UMATAC		11.57	1.53	.80	.80	-	.16	.75	.19	.53	.20	1.00	.73	.48	T	2.00	.32	1.17	.33	.45	-	-	-	-	.23	-	-	-	-	-	-	-	
Wake Island USO AP	R	14.20	1.88	.02	.35	.27	.05	T	1.13	5.25	T	-	T	-	.01	T	.03	.15	.28	2.39	.31	.41	-	-	T	T	.25	.06	.52	.42	.06	.25	-
YIGO		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CAROLINE AND MARSHALL ISLANDS																																	
ENELATAK																																	
FALALOP I ULITHI ATOLL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPINGMARANGI ATOLL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KOROR USO	R	11.69	1.43	1.89	.38	.32	T	-	-	-	-	.28	.32	-	.01	T	1.04	.61	.18	.33	T	-	.18	-	.13	.14	2.61	.02	.05	.34	.26	.17	-
KURJALEIN MISSILE RGN	R	17.46	.53	1.89	.26	.51	.18	.22	1.03	.02	.07	T	.53	1.66	.27	.11	5.35	.11	.62	T	.02	.30	.88	T	.01	T	1.37	1.42	T	-	-	-	-
LELE I KOSRAE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAJURO USO AP	R	13.03	.75	.77	.04	.62	.93	.08	.24	.28	.05	.28	1.98	T	2.76	.44	.78	.01	.24	.91	.03	-	-	1.30	.04	.37	.02	T	.10	.01	-	-	
METALANIM		17.64	4.30	T	-	.06	.80	.30	.25	.95	.85	.30	.90	1.80	.25	1.00	1.80	.60	-	.65	.64	.55	1.50	-	-	-	-	-	-	-	-	-	
NGORANG-BABELTHUAP		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PONAPE USO	R	22.35	6.51	.05	.35	.21	.25	.56	2.22	.03	.05	1.71	.03	1.31	3.95	1.40	.06	.27	.01	.50	.10	.06	1.16	1.34	.07	T	.10	.04	.01	-	-	-	
SATAVAN ATOLL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TAUK MOEN I USO AP	R	25.96	T	15	1.46	.83	1.64	2.65	.53	.93	.01	4.82	1.47	2.06	1.56	1.24	1.48	.29	-	.14	.05	.98	1.00	T	2.63	.01	-	-	-	.02	.01	-	
WOLEAI ATOLL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YAP USO AP	R	10.57	.44	T	.35	.15	.53	1.23	1.36	1.61	.83	1.30	15	T	-	1.26	.75	4.08	.28	.12	-	.19	.33	1.88	.28	.08	.07	1.43	.24	T	.60	.03	-

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HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	70 58	75 55	74 57	73 59	77 56	72 56	70 53	70 46	71 44	72 48	75 53	73 57	75 55	75 53	75 54	73 62	71 59	72 55	74 49	74 50	75 49	75 54	75 56	73 58	72 49	73 47	73 53	74 50	75 50	77 57	79 57	73.6 53.5	
KILAUEA POINT 1133	MAX MIN	86 74	86 74	86 73	85 74	87 73	88 72	86 73	87 73	85 70	86 70	86 71	85 73	87 74	87 73		88 73	84 75	86 75	86 74	86 75	86 74		88 75	87 72	88 75	91 72	92 74	89 74	88 74	88 75		87.0 73.3	
LIMUE WSO AP 1020.1	MAX MIN	86 73	85 76	85 74	85 72	85 73	85 72	86 67	84 66	85 66	87 68	85 75	87 77	86 74	86 76	83 73	84 77	85 77	85 72	85 71	85 72	86 77	87 74	86 75	86 71	86 68	87 68	86 68	87 69	87 75	88 77		85.7 72.5	
NIU RIDGE 1035	MAX MIN	90 64	85 63	86 65	92 68	89 65	90 62	89 65	85 64	88 63	85 63	92 67	88 67	89 65	88 63	90 64	91 67	83 70	88 70	88 68	87 66	87 65	87 66	87 66	91 66	90 65	88 65	89 64	88 63	88 67	88 67	88 67	88.1 65.5	
WAIKAI LOWER 1054	MAX MIN	81 64	80 68	80 67	79 65	80 67	80 63	80 62	79 59	82 61	80 63	82 65	79 65	81 61	83 64	79 66	86 71	80 69	80 66	82 65	79 64	80 64	80 66	83 64	80 67	82 66	80 64	82 63	84 63	82 64	84 62	80 69	81.1 64.5	
WAIKAI 947	MAX MIN	86 70	90 69	90 69	90 69	92 68	87 68	89 70	87 68	86 70	87 71	89 70	88 71	91 69	87 69	86 69	86 69	90 71			88 70	89 72	91 70	89 70	87 69	89 68	88 67	85 73	86 72	87 69	89 69	90 71	88.2 69.7	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN		81 72	86 72			86 71	87 69	89 69	93 69	93 70			88 72	86 72	87 74	88 76	87 75			89 72	88 73	86 75	86 73				95 70	92 70	97 70	92 73		71.9	
B Y U LAIE 903.1	MAX MIN	85 72	85 75	85 74	85 74	84 73	84 73	84 69	85 71	83 69	84 73	84 74	84 72	85 74	85 75	84 75	82 74	83 77	85 77	85 76	85 76	85 74	85 76	85 76	85 75	85 75	85 73	85 74	85 73	85 74	86 74	84.6 73.9		
HONOLULU OBSERV 702.2	MAX MIN	90 66	86 69	88 72	89 74	90 65	89 76	90 65	87 67	86 67	87 70	91 71	90 69	90 67	92 69	89 69	90 70	91 72	89 72	85 69	89 68	91 69	90 69	90 70	90 70	91 68	86 67	87 68	86 68	88 69	92 69	92 70	89.1 69.1	
HONOLULU WSFO AP 703	MAX MIN	85 71	87 72	88 73	87 73	87 74	89 70	90 68	86 70	87 69	91 72	89 75	89 73	89 70	88 73	89 75	90 76	89 77	88 74	90 71	89 72	88 72	90 71	88 74	88 72	89 73	85 68	85 70	90 69	92 73	91 73	92 75	88.6 72.2	
KANEHE MAUKA 781	MAX MIN	84 72	81 73	82 74	83 73	82 73	84 71	85 72	86 73	84 73	85 74	84 73	83 74	83 74	81 74	79 72	80 74	82 72	82 75	84 75	83 73	83 73	82 73	82 73	83 74	82 72	83 73	85 74	85 74	85 75	85 76	83.3 73.4		
MANOA LYON ARBORETUM	MAX MIN	82 69	74 69	77 69	81 70	80 70	79 68	80 68	83 68	86 68	86 69	85 70	82 70	82 72	80 70	78 70	80 71	83 71	82 71	84 70	83 71	82 68	82 70	81 71	80 70	80 69	84 68	85 68	81 68	84 69	82 69	85 71	81.6 69.6	
OPAEULA 870	MAX MIN	84 67	84 68	84 68	80 69	79 69	84 66	84 67	84 66	84 66	85 68	82 66	81 66	84 65	84 66	84 67	84 69	85 69	84 69	85 67	85 75	87 65	85 70	85 69	85 66	85 65	85 66	86 65	85 70	88 70	88 70	86 71	84.7 68.1	
WAIKALEE 896.3	MAX MIN	85 73	84 72	85 72	85 74	84 73	85 71	85 70	84 71	84 72	84 70	82 74	84 70	87 77	85 73	86 74	84 76	82 74	85 73	86 73	84 71	83 72	85 70	84 71	85 70	85 76	84 72	83 73	85 74	85 74	85 77	85 77	85.0 73.0	
WAILUA 847	MAX MIN	87 68	84 65	87 68	84 68	82 62	82 66	89 66	86 64	86 64	86 65	86 66	86 64	86 67	87 68	89 71	90 71	90 71	86 69	90 69	90 69	90 69	91 66	88 66	86 66	86 64	86 62	86 64	86 65	90 69	91 68	87.5 66.1		
WAIKIKI 717.2	MAX MIN	90 73	87 71	87 68	89 74	88 73	89 67	90 66	91 68	91 62	90 69	91 73	90 72	89 71	90 65	90 72	89 73	92 72	90 74	90 69	90 64	90 63	88 66	88 73	89 71	90 68	89 67	88 68	89 69	90 71	90 66	89.5 69.5		
WAIMANALO EXP FM 795.1	MAX MIN																																	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	83 67	83 65	82 68	85 68	84 68	73 64	79 63	81 65	83 64	81 67	83 67	84 63	83 66	84 65	83 68	80 70	85 68	82 67	83 66	81 66	81 65	81 65	82 68	83 68	84 65	81 66	81 65	81 64	82 64	84 69	83 66	85 66	82.2 66.2
LANAI CITY 672	MAX MIN	78 66	79 63	81 66	77 66	74 66	78 65	77 64	80 63	80 63	78 64	74 63	74 65	76 65	76 65	78 67	75 69	76 67	78 66	77 65	78 64	77 63	77 63	79 66	77 66	77 66	78 65	77 64	79 63	82 65	78 67	81 66	77.7 65.3	
ISLAND OF MAUI																																		
HOLEKALA R S 338	MAX MIN	65 45	66 42	65 51	72 54	65 47	66 45	65 42	63 41	66 45	67 48	67 50	71 49	69 42	62 41	65 45	67 51	68 48	67 47	68 46	69 45	68 49	68 46	65 47	67 43	63 39	62 41	65 42	68 42	68 48	69 55	70 56	66.6 46.3	
HANA AIRPORT 355	MAX MIN	83 69	83 69	84 70	83 72	83 72	80 68	85 70	83 72	85 70	85 71	87 71	81 69	84 74	85 72	81 70	84 74	84 72	83 70	84 71	85 70	83 71	84 70	84 70	84 68	83 70	84 70	84 68	83 69	83 71	84 73	86 74	83.7 71.7	
KAAHAPALI AP 453.1	MAX MIN	88 69	88 68	88 72	88 71	87 68	87 66	89 67	92 72	89 70	89 69	89 69	87 66	89 72	89 70	89 72	85 72	89 70	89 70	87 67	87 67	87 67	89 72	89 71	89 66	89 69	86 67	89 66	88 65	89 69	90 68	88.5 69.1		
KAHULUI WSO 398 AP	MAX MIN	89 71	91 69	89 71	88 75	88 76	88 71	89 68	89 68	92 72	91 68	88 76	90 72	90 70	89 76	89 73	89 69	89 70	89 70	89 70	89 68	89 68	90 75	91 72	91 70	90 68	91 71	89 67	89 68	89 65	89 68	90 74	90.0 70.9	
KAILUA 446	MAX MIN	79 69	78 65	77 71	76 70	77 68	79 69	77 65	79 66	81 65	81 68	83 71	80 68	79 68	78 70	79 73	79 70																79.2 68.0	
KEAWAKAPU BEACH 260.2	MAX MIN	90 65	89 65	90 67	90 68	93 66	92 66	88 65	91 65	91 68	92 72	93 67	93 68	90 66	91 67	91 68	84 72	91 69															90.4 67.3	
KULA BRANCH STN 324.5	MAX MIN	78 55	78 56	76 58	77 59	77 57	81 56	74 58	75 57	77 56	78 57	78 57	79 56	77 56	78 60	75 59	78 62	75 59	77 59	79 58	79 57	79 56	78 57	78 56	75 56	72 56	76 56	76 56	76 56	78 59	80 59	76.9 57.6		
KULA HOSPITAL 267	MAX MIN	76 54	77 55	75 59	77 58	77 56	75 55	75 54	77 55	75 58	73 55	78 56	77 55	75 60	75 58	74 60	76 60	76 56	76 60	76 56	76 56	74 56	76 57	77 55	75 55	75 55	73 55	75 56	74 58	76 59	79 60	75.7 57.0		

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HAWAII																																	
LAHAINA 361	MAX MIN	87 67	88 68	87 68	91 70	89 70	87 67	88 67	88 67	88 68	89 70	88 71	87 69	87 68	90 70	89 72	88 69	89 72	89 73	88 71	88 66	88 67	90 67	88 67	88 69	89 70	88 69	92 67	89 67	88 67	91 68	88.5 68.6	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	69 54	71 52	75 59	75 56	71 56	72 53	74 53	74 55	76 57	75 56	74 55	74 55	73 58	74 61	74 60	71 56	75 53	75 54	75 55	71 52	73 54	74 51	74 55	74 54	74 52	76 53	77 51	78 56	78 57	80 54	74.2 55.0	
HILO WSO AP 87	MAX MIN	82 67	83 64	82 69	82 70	81 68	82 65	83 66	85 70	83 71	84 70	84 67	83 68	88 71	88 73	81 70	84 67	83 67	84 67	83 65	84 65	84 66	82 65	83 66	83 66	82 67	84 66	86 65	87 67	85 68	83 68	83.4 67.8	
KAINALIU 73.2	MAX MIN	79 66	80 65	80 64	81 63	76 65	77 64	79 63	81 65	81 65	80 68	80 65	81 65	80 66	83 68	83 70	83 68	79 68	83 68	80 66	79 65	80 65	78 66	79 64	78 65	79 65	80 65	77 64	80 64	82 67	82 66	79.8 65.6	
KAMUELA 192.2	MAX MIN	75 62	73 61	80 66	71 63	72 62	72 62	79 55	80 53	81 55	79 58	77 61	76 62	76 65	78 66	77 65	75 64	80 59	80 61	80 59	78 61	75 58	75 63	75 62	75 62	76 62	77 54	80 51	81 65	78 58	82 65	77.1 60.7	
KAPOHO BEACH 93.11	MAX MIN	89 69	88 67	89 71	85 71	86 69	89 70	88 70	94 73	92 71	90 72	90 72	89 73	85 72	88 71	88 74	88 75	89 71	90 72	92 70	90 69	85 69	89 69	86 68	88 68	87 69	93 69	93 69	89 72	94 71	93 72	89.2 70.5	
KONA (KAILUA) 68.3	MAX MIN	87 72	85 69	86 70	85 73	84 71	85 70	85 70	87 73	88 73	87 73	87 73	88 72	87 75	90 75	89 74	88 75	87 74	87 73	86 74	87 73	87 74	87 75	87 74	87 76	88 74	87 74	85 75	86 70	86 72	86.8 72.9		
KULANI CAMP 79	MAX MIN	67 60	67 50		71 53	67 56	65 48	69 47	66 49	70 54	70 50	61 49	67 46	67 52	75 45	70 46	73 55	73 58	68 58	69 47	68 48	66 58	66 54	66 54	67 47	66 52	67 42	69 53	72 46	69 58	74 52	68.4 51.5	
MAUNA KEA OBS 111.2	MAX MIN	55 20	55 34	47 30	49 20	55 31	55 34	52 34	49 28	48 32	44 31	44 36	48 36	55 35	47 33	49 32	45 28	47 29	53 17	53 34	51 30	52 26	51 32	51 32	54 35	57 35	57 35	55 33	49 28	49 22	47 22	50.6 30.4	
MAUNA LOA SLOPE OBS	MAX MIN	62 43	58 45	55 39	52 37	56 35	58 43	58 41	55 40	52 38	50 37	52 36	52 36	56 38	58 40	59 43	57 41	55 40	52 38	53 40	56 38	55 36	54 36	54 37	54 37	55 37	59 40	60 41	59 44	56 40	55 38	55.8 39.2	
MOUNTAIN VIEW 91	MAX MIN	79 63	78 63	80 62	78 66	80 66	79 61	80 60	81 64	81 64	77 64	80 63	81 63	81 66	77 67	79 66	82 68	75 66		81 62	80 62	82 61	82 61	79 61	81 60	83 60	83 60	83 60	82 59	83 62	85 62	80.4 62.7	
NAALEHU 14	MAX MIN	81 63	79 61	82 62	78 66	78 65	82 64	84 64	83 67	80 67	77 65	78 63	83 64	84 65	82 69	78 65	78 65	78 63	82 65	80 63	80 63	80 63	80 64	80 63	80 63	80 63	80 63	83 62	86 62	82 67	85 68	81.1 64.7	
OOKALA 223	MAX MIN	79 63	80 61	82 62	82 69	81 68	79 66	80 70	82 69	82 69	81 72	81 71	82 70	82 69	81 70	82 69	80 71	81 70	82 68	81 67	81 69	84 67	82 67	82 69	82 69	81 69	80 67	83 66	82 67	82 69	81.4 68.6		
OPIHIHALE 2 24.1	MAX MIN	78 60	82 61	84 63	77 62	80 61	82 60	83 61	83 62	81 66	81 65	81 63	84 63	84 66	84 66	78 66	83 64	83 62	81 64	79 63	81 63	80 63	80 63	80 63	80 61	80 59	80 60	84 62	83 62	84 62	81.5 62.4		
PUUKOHOLA HEIUA 98.1	MAX MIN	91 70	92 69	90 75	91 73	94 73	90 69	89 68	90 71	91 72	89 74	90 71	91 70	92 71	92 71	90 71	92 72	90 72	90 70	90 70	90 70	91 71	90 71	90 71	90 71	92 70	91 69	91 70	93 69	91 71	91 74	90.8 71.3	
SOUTH KONA 2.31	MAX MIN		75 56	82 61	81 61	81 58	72 61	80 58	83 58	82 60	75 62	76 62	80 58	76 60	74 61	83 64	78 64	80 62	79 59	81 60	75 64	75 57	74 59	77 57	71 56	80 56	73 61	69 60	70 57	75 60	78 60	82 57	77.2 59.7
UPOLU POINT USCG 159.2	MAX MIN	85 68	85 66	87 72	84 70	85 70	87 71	87 69	88 71	88 71	86 72	86 73	87 72	87 72	87 72	87 73	85 72	87 73	86 72	85 73	86 72	86 71	86 73	86 71	86 73	86 71	86 70	87 71	88 68	88 70	89 72	88 74	86.6 71.2

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PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	85 75	87 75	85 76	86 77	86 79	85 79	86 78	85 78	86 77	86 78	86 79	87 79	87 79	86 78	87 78	87 80	87 79	85 78	88 79	87 79	85 80	87 80	86 75	86 75	84 72	86 78	87 79	86 79	86 76	86 76	87 76	86.1 77.6	
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	83 77	85 77	84 73	86 71	87 74	81 72	79 71	83 74	88 72	86 69	86 69	84 77	82 75	83 67	86 64	83 66	82 76	82 66	84 75	84 73	85 74	85 76	85 72	85 78	84 74	84 77	84 77	86 76	84 78	85 77	84 77	84.2 73.4	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12° N																																		
ANDERSEN AFB GUAM	MAX MIN	81 76	82 76	77 74	83 76	85 74	86 79	87 77	82 76	84 75	85 76	85 75	86 78	83 76	84 76	86 78	83 76	81 76	84 77	86 77	87 78	84 78	86 79	86 79	86 79	86 79	85 79	82 76	87 80	87 77	87 78	86 78	88 78	84.6 76.9
CLARK AFB LUZON	MAX MIN	84 75	86 75	86 75	84 75	81 75	77 75	77 75	79 73	84 75	91 73	79 75	86 75	86 75	79 72	77 72	75 73	88 73	90 75	86 73	88 73	93 75	93 77	91 75	90 75	90 75	86 75	88 77	88 77	91 77	91 72	90 72	88 73	85.6 74.4
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	81 73	81 74	88 73	84 71	85 69	86 73	85 75	81 74	86 71	88 71	87 72	85 72	84 72	87 70	88 71	85 73	83 71	85 75	88 75	87 70	89 74	88 72	89 70	89 73	88 72	83 70	88 71	87 69	86 68	86 68	86 68	85.9 71.6	
INARAJAN - NASA	MAX MIN	87 74	87 75	85 75	88 74	88 73	88 74	89 76	88 72	88 50	88 52	88 50	88 74	88 73	87 73	87 73	88 73	87 74	87 74	88 75	88 75	89 76	88 75	89 75	88 76	88 74	88 72	88 72	88 72	89 72	89 72	89 72	87.9 71.5	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	86 74	88 76	89 74	86 74	89 78	89 78	81 74	80 72	87 79	84 77	86 78	88 78	88 78	87 79	89 79	90 78	86 75	86 75	85 74	86 78	86 77	87 75	88 77	88 77	88 77	88 77	88 77	88 76	88 73	88 72	87 75	86.9 76.1	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENEWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	89 70	83 74	88 75	88 76	88 75	88 80	88 80	87 78	88 74	84 77	87 74	88 79	88 80	88 80	89 80	88 73	88 71	89 73	88 73	88 78	89 78	88 75	88 76	88 72	88 75	87 74	88 75	88 76	87 74	88 75	88 75	87.6 75.5	
KWAJALEIN MISSILE RGN	MAX MIN	88 75	84 73	88 75	87 77	86 76	87 77	85 75	87 77	87 79	89 80	87 77	85 74	87 75	88 77	82 75	84 77	86 79	87 79	88 77	88 77	85 77	88 77	90 77	90 77	86 77	87 78	88 79	88 72	88 75	89 80	89 81	87.0 77.1	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	85 75	83 75	86 77	87 74	85 75	87 76	87 75	84 75	86 76	88 76	85 74	87 76	87 76	81 73	85 75	87 74	88 77	87 78	88 76	87 75	86 76	87 73	87 75	89 75	86 73	85 75	86 75	87 76	87 77	88 76	86.3 75.5		
METALANIM	MAX MIN	87 70	87 70	88 70	88 71	87 72	84 72	88 70	89 71	88 70	87 72	86 71	86 70	86 70	86 71	86 70	90 73	86 71	88 71	88 72	87 71	89 71	85 71	86 71	88 70	87 67	88 67	88 69	88 70	88 70	87 70	88 70	87.3 70.4	
PONAPE WSO	MAX MIN	85 71	90 73	90 75	87 73	88 74	84 73	87 73	91 73	91 73	89 73	87 73	86 74	85 73	88 73	88 76	88 75	86 75	90 79	87 75	91 74	87 73	86 73	85 72	89 71	90 72	92 71	90 72	91 71	90 70	91 70	92 72	88.4 73.0	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	87 73	91 76	89 75	85 76	85 73	82 75	86 74	87 74	88 78	86 73	87 73	87 72	85 74	82 74	84 75	87 76	89 77	90 76	89 77	88 75	88 75	88 75	88 78	88 75	91 74	88 74	88 74	89 75	90 75	89 75	90 75	87.6 74.9	
MOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	87 73	87 73	88 75	87 74	89 74	86 73	88 74	86 74	87 72	84 73	88 73	88 74	88 74	89 75	86 71	88 72	82 72	86 72	88 73	88 77	89 75	85 72	86 72	86 73	87 74	88 75	87 73	87 72	88 72	88 71	88 72	87.1 73.2	

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EVAPORATION AND WIND

HAWAII AND PACIFIC
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STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
TIME WSO AP 1020.1	EVAP	.40	.47	.31	.34	.44	.42	.34	.35	.33	.22	.30	.38	.38	.42	.33	.33	.26	.28	.32	.25	.35	.36	.33	.35	.41	.37	.33	.38	.33	.29	.30
	WIND	188	253	218	238	241	202	125	131	109	80	171	197	193	180	183	201	193	171	125	114	152	183	178	170	131	116	92	112	99	112	127
	MAX	87	84	87	86	85	85	87	87	87	83	88	85	86	87	84	87	80	86	86	89	87	87	86	87	87	87	87	87	88	88	89
	MIN	65	65	66	67	65	64	64	63	61	61	64	68	65	66	67	68	68	68	64	66	66	67	67	68	66	64	64	62	64	65	70
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.65	.61	.50	.64	.70	.76	.68	.70	.66	.71	.75	.75	.75	.68	.53	.60	.72	.75	.65	.66	.75	.75	.72	.69	.85	.75	.65	.60	.76	.45	.60
	WIND	21	23	17	27	34	28	17	26	20	23	25	23	23	19	16	18	20	32	33	27	21	25	20	21	19	40	26	18	24	22	25
	MAX	90	88	87	90	93	91	92	93	94	95	93	92	91	90	-	92	95	95	93	94	94	96	94	96	95	93	97	98	98	95	96
	MIN	66	66	68	68	64	66	65	65	67	66	68	67	65	66	66	74	72	72	72	69	69	69	71	71	69	69	71	69	70	72	72

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EVAPORATION AND WIND

HAWAII AND PACIFIC
AUGUST 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.33	.31	.37	.33	.38	.43	.20	.36	.32	.31	.32	.46	.29	.32	.35	.33	.32	.28	.32	.31	.30	.32	.32	.33	.19	.28	.31	.28	.37	.36	.34	10.04
	WIND	230	165	212	227	209	228	176	162	170	163	172	169	164	147	160	171	117	102	125	100	192	178	181	149	132	74	54	63	138	173	176	4879
PAGO PAGO WSO AP	EVAP	-	.22	-	.17	.17	-	-	.05	.00	.21	.22	.26	.35	.28	.16	.22	.22	.21	.15	.56	-	.31	.22	.24	.24	.29	.29	.20	.26	.20	.11	6.938
	WIND	165	167	105	32	35	68	155	130	24	27	40	115	96	109	30	54	96	93	103	80	51	93	50	144	155	175	154	154	146	146	164	3156
	MAX	84	90	86	91	93	83	82	90	95	92	95	95	95	91	93	95	95	95	95	91	95	95	96	93	90	91	92	92	93	95	94	92.0
	MIN	70	71	74	72	70	69	67	71	70	70	70	71	70	71	75	69	71	70	71	75	71	75	72	73	74	72	71	70	72	72	70	71.3
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUM WSMO	EVAP	.15	.06	.25	.03	.25	.31	.23	.10	.13	.21	.18		.14	.30	.09	.17	.21	.08	.37	.34	.27	.32	.21	.26	.22	.22	.15	.16	.30	.13	.30	6.348
	WIND	108	109	25	22	34	54	103	83	62	23	50	21	32	17	39	46	130	109	84	28	39	47	35	41	44	69	44	22	23	28	36	1607
	MAX	78	79	86	86	93	92	91	82	90	87	83	87	87	87	89	90	81	84	93	97	94	94	92	95	90	91	95	91	91	94	91	89.0
	MIN	72	71	70	71	70	73	72	69	70	71	73	70	72	70	71	71	70	72	73	72	74	73	72	72	73	70	71	71	70	71	71	71.3
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	.20	.13	.08	.21	.27	.22	-	.16	.05	.20	.18	.29	.17	.25	.39	-	.44	.21	.15	.21	.13	.35	.19	.06	.23	.41	.07	.18	.10	.18	6.338	
	WIND	83	39	102	52	99	60	109	154	133	115	109	67	49	36	81	124	138	168	108	50	35	39	85	85	36	49	54	28	23	37	34	2381
	MAX	91	90	92	95	95	83	88	85	87	85	96	97	96	84	97	93	83	90	93	94	97	93	94	94	91	96	96	92	98	98	93	92.1
	MIN	75	75	75	74	75	73	73	74	72	73	74	75	73	77	76	74	73	73	74	75	76	76	73	75	75	76	75	76	76	75	76	74.6

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ISLAND OF OAHU												
ILIIILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION

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STATION		INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
									TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU														
KALIHI RES SITE 777	R	2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS CHARLES COOKE	
KANEOME MAUKA 781		3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A				
KAPALAMA 773	A	3268	02	HONOLULU		21 21	157 52	614		8A				
KAWAHAPAI 841	A	3734	05	WAIALUA		21 35	158 11	40		7A				
KEMOO CAMP 8 855	A	4318	05	WAIALUA		21 33	158 05	725		7A				
KOOLAU DAM 833	A	4766	05	WAIHAWA		21 30	157 58	1160		8A				
LULUKU 781.7		5655	01	KOOLAUPOKO		21 24	157 49	240				C		
MAKAHA PUMP 800.2		5782	04	OAHU		21 29	158 12	400				C		
MAKAKILO 730.1		5789	03	OAHU		21 21	158 06	300		6A				
MANOA 712.1		6122	02	HONOLULU		21 19	157 49	220		7A				
MANOA LYON ARBORETUM		6128	02	OAHU		21 20	157 48	500	8A	8A			LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC O L GRUBB CC DEPT PKS RECREATION	
MANOA TUNNEL 2 716	R	6130	02	HONOLULU		21 20	157 48	650		MID				
MAUNAWILI 787.1		6222	01	KOOLAUPOKO		21 21	157 46	395				C		
MOANALUA 770		6395	02	HONOLULU		21 21	157 54	20		9A				
MOUNT KAALA 844		6553	04	WAIANAE		21 31	158 09	4025				C		
NUUANU RES 4 783		6928	02	HONOLULU		21 21	157 49	1048		MID				
NUUANU RESERV 5 775	A	6933	02	HONOLULU		21 21	157 50	410		WI				
OPAEULA 870	A	7150	05	WAIALUA		21 34	158 02	1060	7A			C		
PAIKO DR 723.4		7540	02	HONOLULU		21 17	157 44	10		6P				
PALI GOLF COURSE 788.1		7656	01	OAHU		21 23	157 47	480		10A				
PALOLO VALLEY 718	R	7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC	
PAUOA FLATS 784	R	7810	02	HONOLULU		21 21	157 48	1640		MID				
PEARL COUNTRY CL 760.2		7942	03	OAHU		21 23	157 56	120				C		
PUNALUU PUMP 905.2		8314	01	KOOLAUPOKO		21 35	157 54	20				C		
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU		21 19	157 51	360		8A				
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA		21 38	158 02	750				C		
PUU MANAWAHUA 725.6		8500	03	OAHU		21 23	158 06	1690		8A				
TANTALUS 2 780.5		8738	02	HONOLULU		21 20	157 50	1315		7A				
UNIV OF HAWAII 713	A	8815	02	HONOLULU		21 18	157 49	79		8A				
WAIHAWA DAM 863		8945	05	WAIHAWA		21 30	158 03	854				C		
WAIHOLE 837	A	8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALEE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL U H WAIMANALO EXP FARM	
WAIALAE KAHALA 715		9185	02	HONOLULU		21 16	157 46	10		7A				
WAIALEE 896.3		9190	01	KOOLAUPOKO		21 41	158 02	33	8A	8A				
WAIALUA 847	A	9195	05	WAIALUA		21 35	158 07	32	7A	7A		C		
WAIANAE 798.2	A	9231	04	WAIANAE		21 27	158 11	10		7A				
WAIANA 836	A	9261	03	EWA		21 28	157 56	800		MO				
WAIKANE 885	A	9340	01	KOOLAUPOKO		21 30	157 53	760		WI				
WAIKIKI 717.2		9397	02	HONOLULU		21 16	157 49	10	8A	8A				
WAILUPE VLY SCH 723.6		9500	02	HONOLULU		21 18	157 45	180				C		
WAIMANALO EXP FM 795.1		9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A				
WAIMANALO NONOKI 795.2		9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY	
WAIMER 892		9593	05	WAIALUA		21 38	158 04	330				C		
WAIPAHU 750	A	9738	03	EWA		21 23	158 01	59		8A				
WILHELMINA RISE 721	R	9980	02	HONOLULU		21 18	157 47	1100		MID				
ISLAND OF MOLOKAI														
KALAUPAPA 563	A	2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD	
KAUNAKAKAI 536		3541	01	MOLOKAI		21 06	157 01	12		7A				
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI		21 06	157 01	70				C		
KEONELELE PENS 551	A	4394	01	MOLOKAI		21 12	157 12	560		VAR				
KEPUHI-SHERATON 550.2		4500	01	MOLOKAI		21 11	157 14	140				C		
KUALAPUU 534	A	4778	01	MOLOKAI		21 09	157 02	825				C		
MAUNALO 511	A	6190	01	MOLOKAI		21 08	157 13	1070				C		
MOLOKAI AP 524		6534	01	MOLOKAI		21 09	157 06	450	8A	8A				
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI		21 09	156 44	700				C		
WAIKOLU 540	A	9404	01	MOLOKAI		21 08	156 55	3550		WI				
ISLAND OF LANAI														
KANEPUU 690	A	3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A U S D A KOELE COMPANY KOELE COMPANY	
KAUMALAPUU HARBOR 658		3461	01	LAHAINA		20 47	157 00	30		8A				
LANAI AIRPORT 656		5275	01	LAHAINA		20 48	156 57	1300	8A	8A				
LANAI CITY 672	A	5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C		
LANAIHALE 684	A	5301	01	LAHAINA		20 49	156 53	3370		WI				
MAHANA 694	A	5704	01	LAHAINA		20 52	156 55	1430		MO				
MALAE 676	A	6012	01	LAHAINA		20 46	156 55	1150		WI				
WAIKAEKUA 685	A	9021	01	LAHAINA		20 47	156 52	2000		WM				

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AOWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMALE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	7A	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	0150	02	HILO		19 44	155 09	1490		8A			MAUNA KEA SUGAR CO
HAINA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALO 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30	7A				FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAI 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	5761	02	HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
ODKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAUULO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO		19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH

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ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST

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PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			CLOSED 6/30/79
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			CLOSED 6/30/79
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			CLOSED 7/31/79
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE
CLOSED STATIONS EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			CLOSED 6/30/79
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			CLOSED 6/30/79
WESTERN PACIFIC ISL. NORTH OF 12 N												
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			CLOSED 7/31/79

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- 1/2 Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

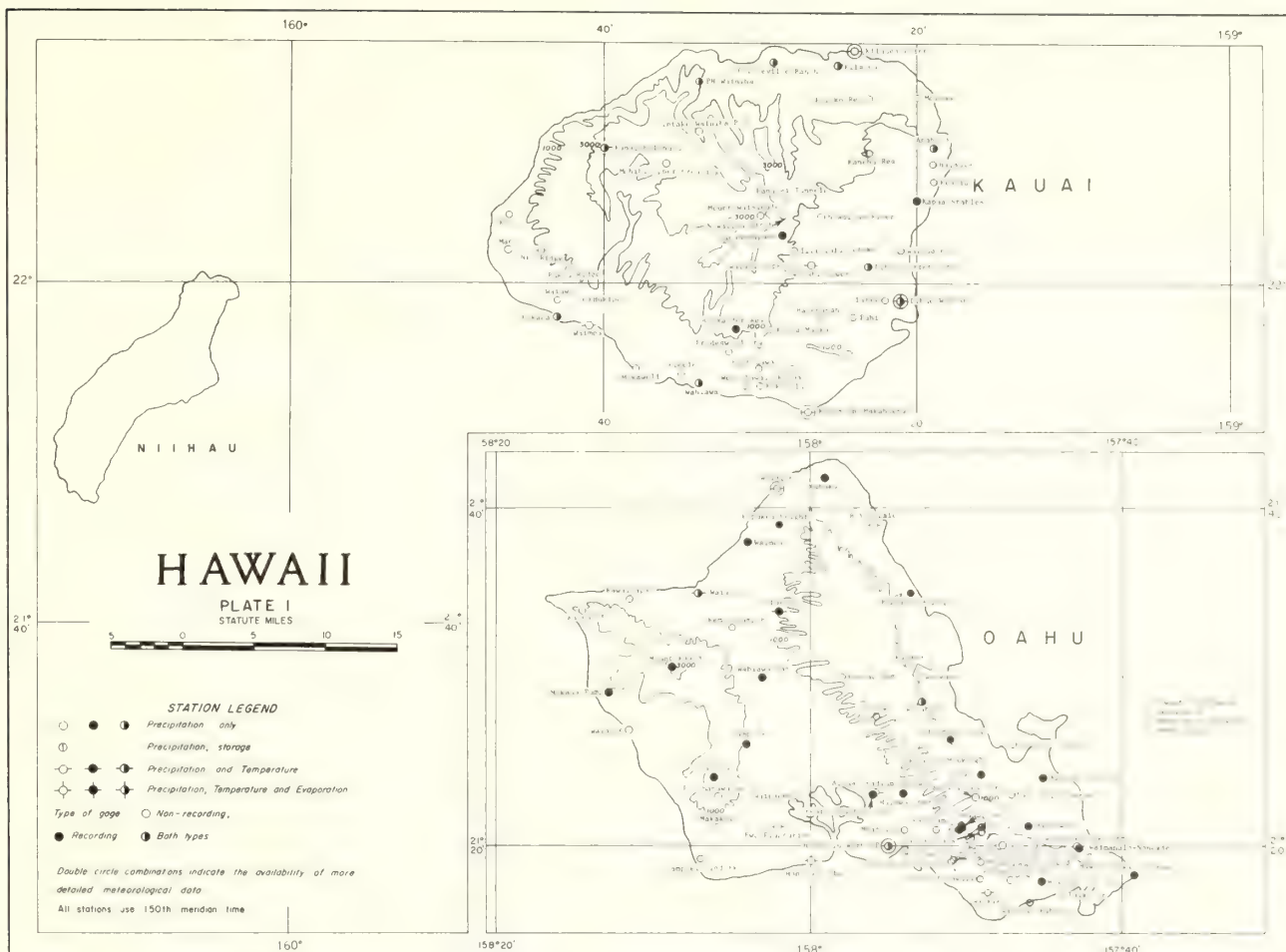
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

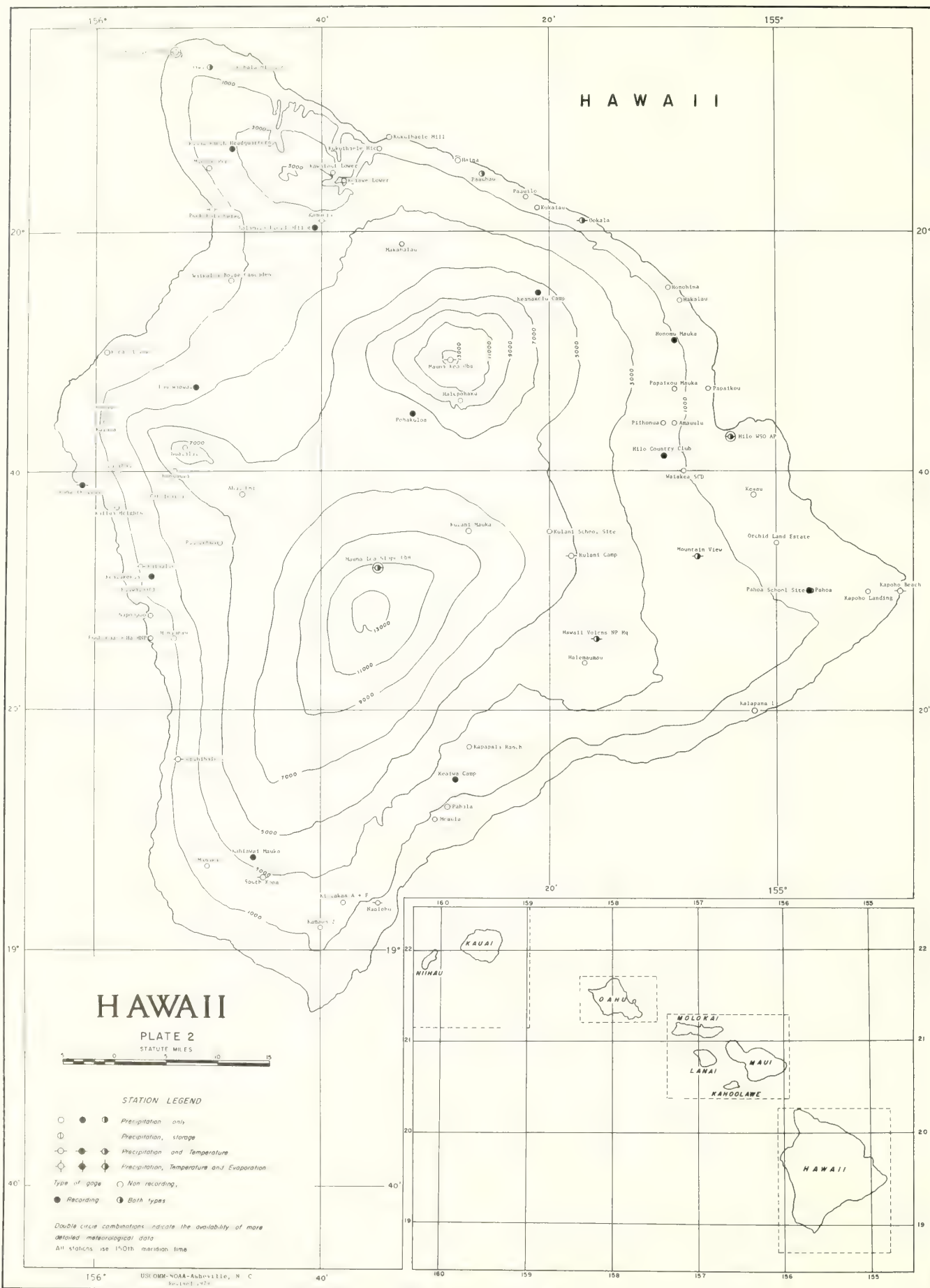
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

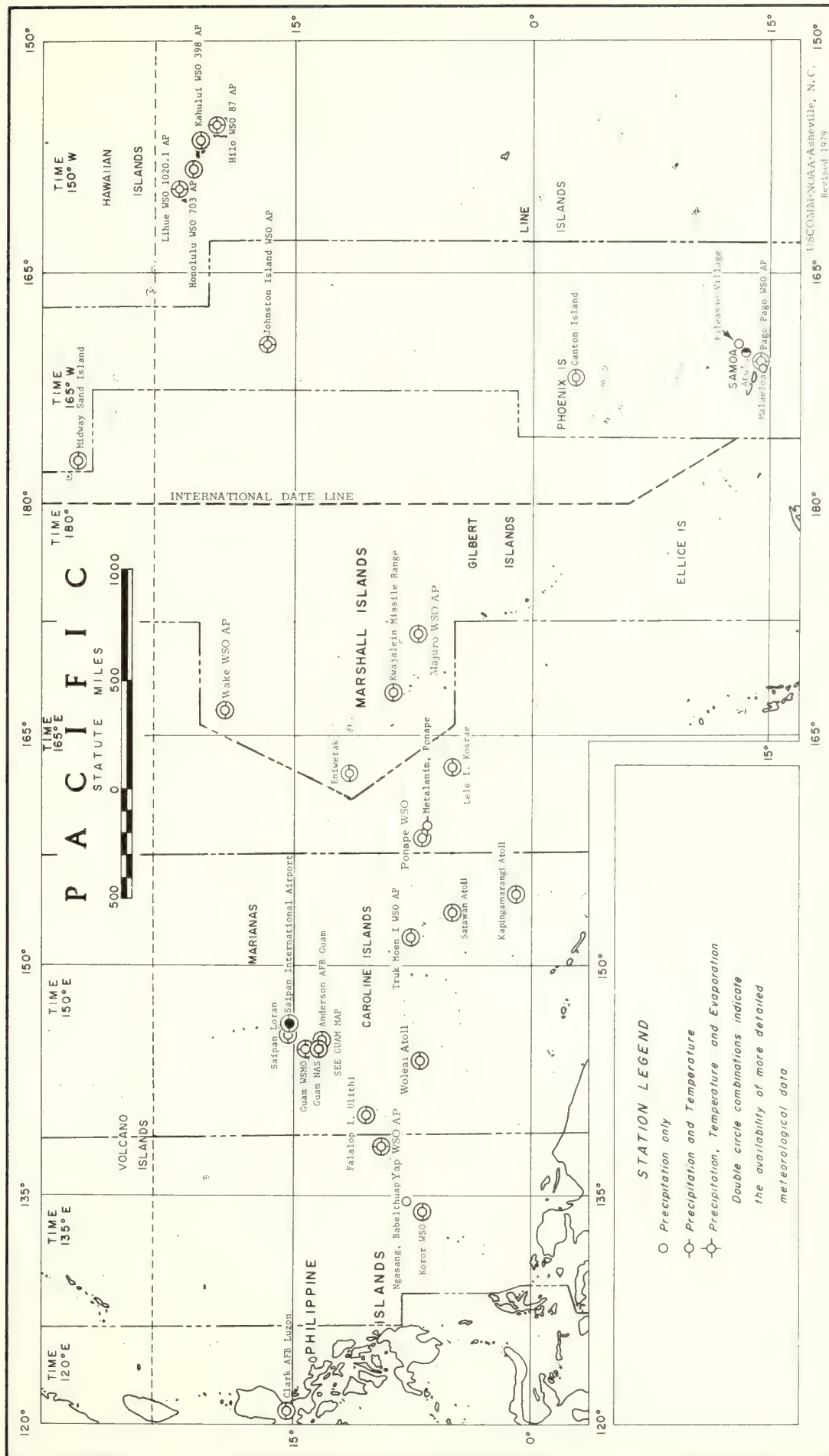
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

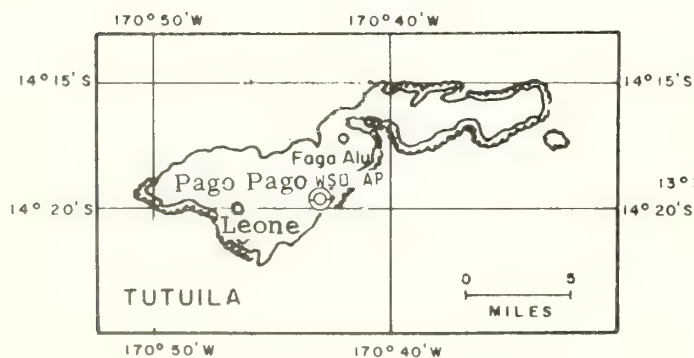
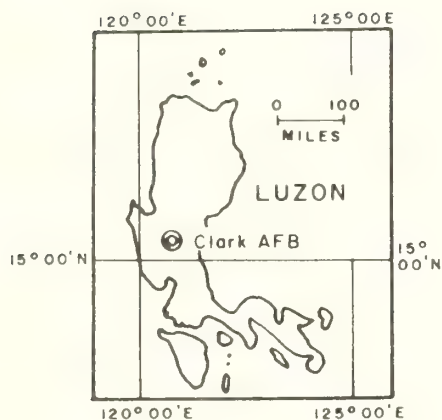
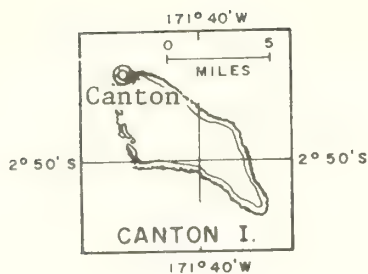
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

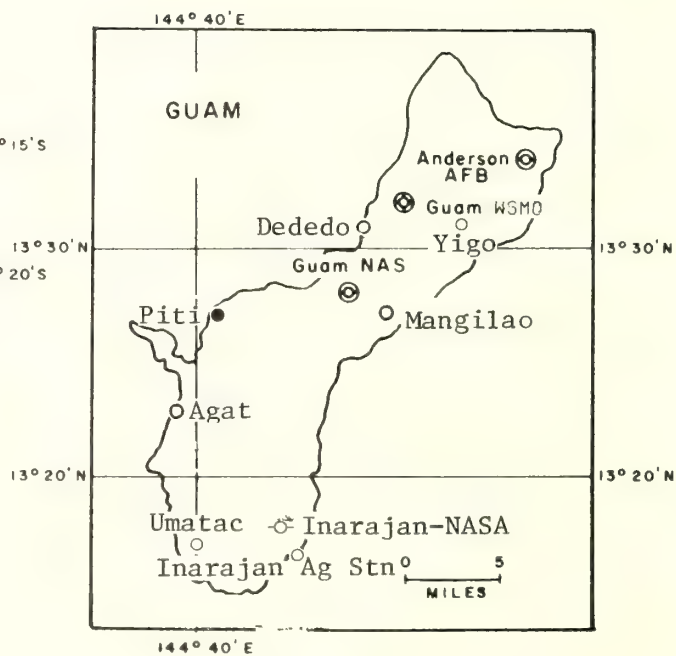


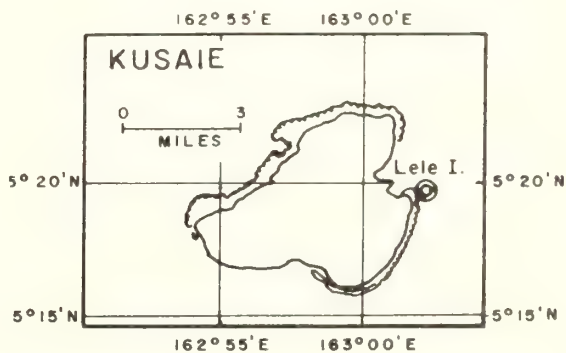
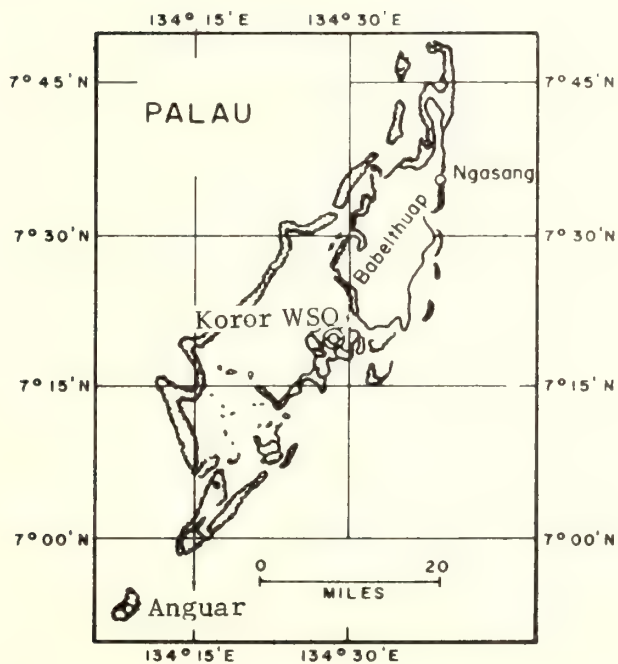
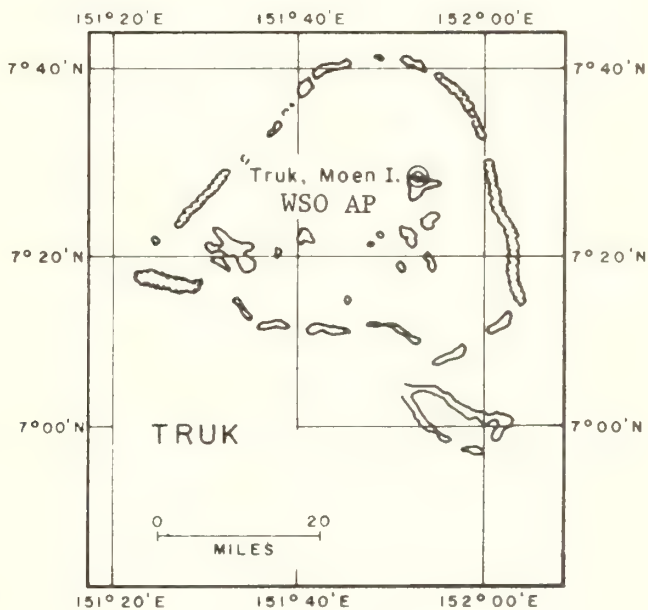
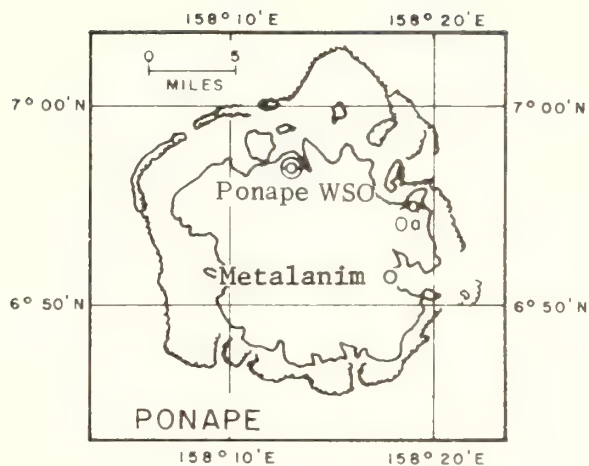
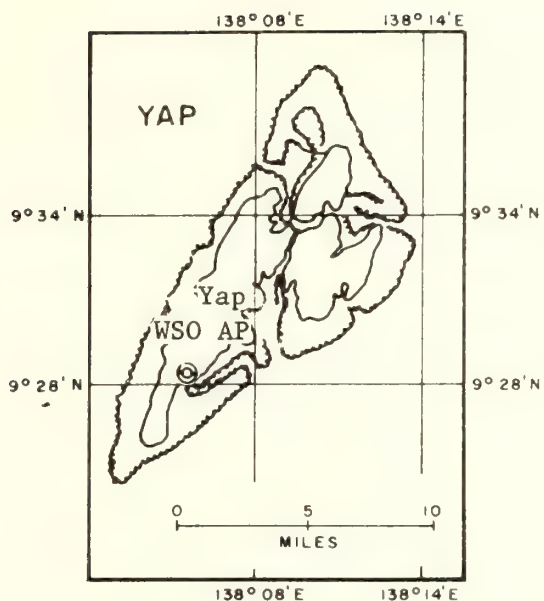




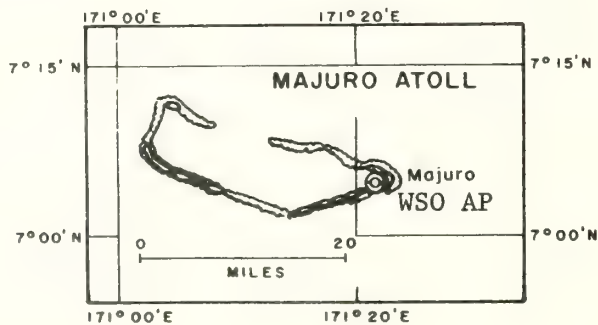
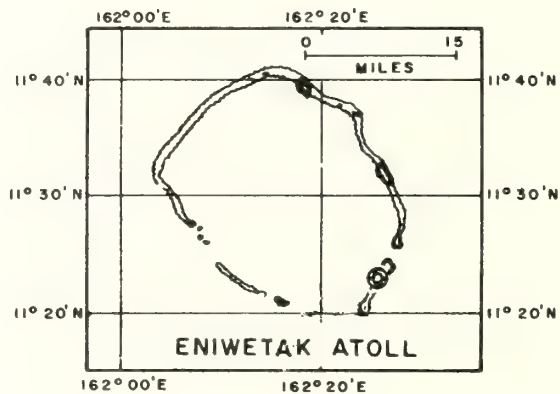
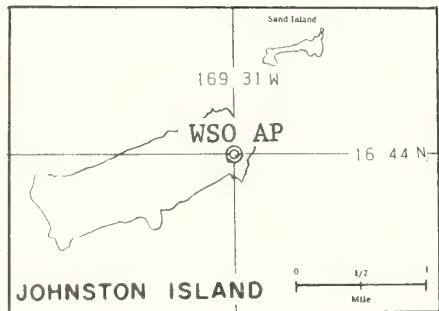
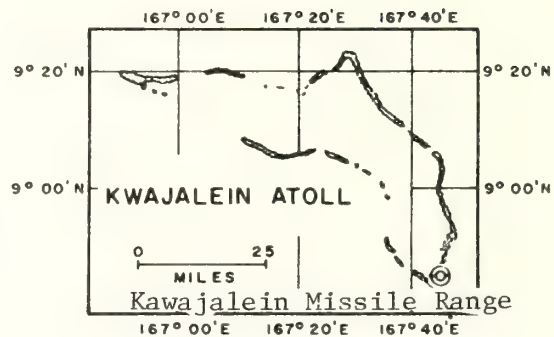
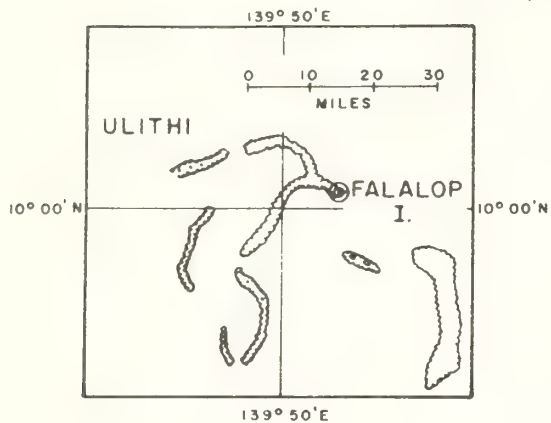
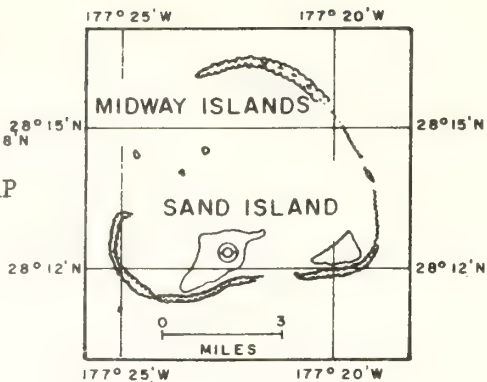
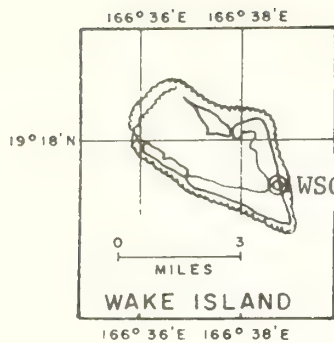


Reef





— Reef



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Climatological Data

HAWAII AND PACIFIC



TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	95	DATE	25+
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	23	DATE	01
GREATEST TOTAL PRECIPITATION:	LANIAU 68.2	HAWAII	17.13		
LEAST TOTAL PRECIPITATION:	8 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	LANIAU 68.2	HAWAII	3.98	DATE	06

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION										PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL					
							GREENWICH CIVIL															
							12	18	00	06												
GUAM WSMO	-	-	-	26	E	09	-	80	81	95	1	7	10	6	1	0	25	32	8.8			
HILO WSO 87 AP	18	0.6	5.8	16	E	17	83	75	66	83	7	6	12	0	1	0	26	79	5.6			
HONOLULU WSO 703 AP	6	9.7	11.0	28	NE	26	80	72	53	71	12	6	1	0	0	0	19	82	4.7			
JOHNSTON WSO AP	8	14.4	14.8	35	NE	14	82	81	73	80	9	12	2	0	0	0	23	89	4.1			
KAHULUI WSO 398 AP	5	10.9	12.2	30	NE	25	-	70	54	71	6	4	1	0	0	0	11	72	4.7			
KOROR WSO	26	0.7	6.0	21	SE	07	86	-	79	73	0	5	9	5	1	2	22	62	8.0			
KWAJALEIN MISSILE RGN	8	8.5	9.7	26++	8	26	84	84	75	79	3	4	12	4	0	1	24	-	7.9			
LIHUE WSO 1020.1 AP	6	8.4	10.0	19	NE	04	83	83	64	77	4	13	4	0	0	0	21	80	4.7			
MAJURO WSO AP	8	5.6	7.5	28	E	23	80	82	74	76	7	5	3	7	1	0	23	72	8.3			
PAGO PAGO WSO AP	11	11.9	13.7	31	SE	11	88	86	79	85	4	12	3	2	2	1	24	58	7.6			
PONAPE WSO	-	-	-	17	NE	02	92	-	74	76	2	4	17	1	1	0	25	51	7.3			
TRUK,MOEN I. WSO AP	14	1.2	6.6	30	W	29	89	-	75	73	3	6	8	2	4	0	23	48	9.0			
WAKE ISLAND WSO AP	9	8.9	11.1	35	NE	28	86	87	73	79	2	12	8	1	2	0	25	60	7.6			
YAP WSO AP	26	1.2	5.8	24	W	22	90	-	77	76	3	5	4	6	3	0	21	57	7.9			



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
											50° OR ABOVE	32° OR ABOVE	32° OR BELOW	50° OR BELOW	TOTAL					MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION	TEMPERATURE										PRECIPITATION															
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS					
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE			
										30° OR MORE	32° OR BELOW	32° OR BELOW	34° OR BELOW													
HAWAII																										
PUUKOHOLA HEIAU 98.1	91.7M	70.6M	81.2M		95	25+	60	3+	28	0	0	0	0	.54		.37	26	.0	0	2	0	0	0	0	0	0
SOUTH KONA 2.31	76.3	59.7	68.0		82	8	54	23	0	0	0	0	0	1.90		.40	18	.0	0	0	0	0	0	0	0	0
WAIKAEA SCO 88.2														4.14		.79	25	.0	0	13	2	0	0	0	0	0
ISLAND			73.1											3.09				.0								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION		TEMPERATURE										PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-1.0 OR MORE	-5.0 OR MORE	1.00 OR MORE	
											50° OR ABOVE	32° OR BELOW	32° OR BELOW	50° OR BELOW											
PACIFIC																									
■ ■ ■ EAST OF 180TH MERIDIAN																									
ATU-U FALEASAO VILLAGE		R	86.9	78.1	82.5	1.6	88	30+	74	19	0	0	0	0	11.28	- 1.17	3.55	12	.0	0		18	7	2	
JOHNSTON IS WSO AP			86.8	75.6	81.2	2.5	92	7	73	30+	3	0	0	0	.88		.24	19	.0	0		2	0	0	
MIDWAY SAND ISLAND															2.84		1.15	7	.0	0		7	1	1	
MALAELOA														10.88	- 1.02	5.51	11	.0	0		11	4	3		
PAGO PAGO WSO AP		R	84.9	76.0	80.5	1.5	88	24+	70	11	0	0	0	0	9.12	3.04	3.83	11	.0	0		8	5	3	
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																									
AGAT															9.94		2.80	27	.0	0		15	6	3	
ANDERSEN AFB GUAM			84.7	77.4	81.1	1.3	89	1	75	22+	0	0	0	0	7.62	- 5.94	1.03	11	.0	0		19	6	1	
CLARK AFB LUZON			89.6M	76.3	83.0M	3.2	92	28+	72	2	21	0	0	0	10.81	- 3.03	2.05	19	.0	0		15	7	3	
DEDEDO															14.06		2.20	10	.0	0		18	11	6	
GUAM NAS			89.2	76.4	82.8	1.8	92	6+	74	30+	15	0	0	0	11.55	- 2.58	2.13	26	.0	0		15	9	4	
GUAM WSMO		R	86.5	71.2	78.9	.2	89	15+	67	5+	0	0	0	0	8.34	- 5.74	1.60	22	.0	0		17	7	1	
INARAJAN AG STN																									
INARAJAN - NASA			87.9	72.9M	80.4M		90	5+	69	5	2	0	0	0	13.63		6.00	22	.0	0		17	6	3	
MANGILAO															4.35		.80	30	.0	0		13	2	0	
SAIPAN LORAN																									
UMATAO																	2.00	26+	.0	0					
WAKE ISLAND WSO AP		R	88.5	77.7	83.1	.5	90	30+	72	1	10	0	0	0	4.58	- 1.11	1.32	28	.0	0		11	3	2	
YIGO															9.51		1.53	17	.0	0		11	1		
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																									
ENEWETAK																									
FALALOP I ULITHI ATOLL																									
KAPINGAMARANGI ATOLL																									
KOROR WSO		R	88.7	75.5	82.1	.5	92	5	72	23	12	0	0	0	12.29	.70	2.87	23	.0	0		17	8	3	
KWAJALEIN MISSILE RGN		R	87.9	78.1	83.0	.5	90	22+	75	26	5	0	0	0	8.44	- 2.43	2.17	26	.0	0		17	5	1	
LELE I KOSRAE																									
MAJURO WSO AP		R	87.3	76.6	82.0	.6	89	22+	73	24	0	0	0	0	6.54	- 7.85	1.01	17	.0	0		11	8	1	
METALANIM			88.7	70.3	79.5		91	27+	68	16+	10	0	0	0	7.88		1.68	28	.0	0		13	4	3	
NGASANG-BABELTHUAP																	2.19	16	.0	0					
PONAPE WSO		R	90.5	73.1	81.8	1.2	93	22+	71	13	22	0	0	0	6.57	-10.19	1.20	30	.0	0		19	2	1	
SATAWAN ATOLL																									
TAUK MOEN I WSO AP		R	88.8	76.0	82.4	1.4	91	17+	74	■	13	0	0	0	10.44	- 2.63	1.98	4	.0	0		14	6	4	
WOLEAI ATOLL																									
YAP WSO AP		R	88.5	74.2	81.4	.1	92	5	71	24	7	0	0	0	9.59	- 3.50	1.97	24	.0	0		13	9	3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1979SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1978

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PARAHUA 217	.78			.10	.08					.04	.01					.19				.03							.15	.06		.11		
PARAU 221	.55			.11	.07																						.10	.25				.02
PAHALA 21	1.13	A	x	x	x		T			.05		.27	.11		.14	x		.16	.06													.08
PAHUA 65	x		x	x	x	.56	.53	.30	x	x		.66	.16				x	.12	.21													
PAPAIKUBU 144.1	4.45		x	x	x	.32	.03	.12	.17	x	x	.48	.01	.25	.03	x	x	.01	.21													
PAPAIKUBU MAUKA 140.1	14.70	V	x	x	x	.83	x	x	x	x	x	.50	x	x	x	x	x	.22	x	x	x	x	x	x	x	x	x	x	x	x	3.00	
PIIHOHUA 88	5.80	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.80	
PUUKOHOLA HEIAU 98.1	.54					.10								.07																		
PUU LEHUA 73	2.00	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	
PUUKOHOLA-S-HONAHU	3.71					.51	.17	.34								.19	.25	.21														.17
SOUTH KONA 2.31	1.80		.02	.03		.10	.34			.12	.05		.21		.34				.40		.10		T									.09
UPR U POINT USCO 158.2	1.04		.02	.03		.02	.08	T		.01	.36	.08			T																	
WAIKAE SCD 88.2	4.14		.10	.15		.40	.57			.15	.18	.08					.01		.45			.01										
WAIKALOA-BOIS CAS 95.8	1.16	x	x	.23			.13			.69					.06	.02	.03	x		.03												

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
ATU'U	11.28	.28	.54	-	-	.08	.43	.56	.49	.58	.32	1.01	3.55	.18	.01	.15	.13	.06	-	-	.07	.16	.70	.86	.27	-	-	-	.46	.08	.02	
FALASAO VILLAGE	88	.01	.07	T	-	.08	.43	.03	.01	-	.19	T	T	T	.05	.02	.03	.03	.24	T	.01	T	.04	.08	.08	T	.08	T	.01	T	T	
JOHNSTON IS WSO AP	2.84	.32	.11	.05	.12	.07	.02	1.15	.07	-	T	5.51	.45	.06	.05	-	.10	.08	.18	.08	.08	T	.57	.11	.02	.30	.02	.30	1.50	.20	-	
MIDWAY SAND ISLAND	10.88	.38	-	-	.37	.07	-	.07	-	-	T	5.51	.45	.06	.05	-	.10	.08	.18	.08	.08	T	.57	.11	.02	.30	.02	.30	1.50	.20	-	
MAKALEA	10.88	.38	-	-	.37	.07	-	.07	-	-	T	5.51	.45	.06	.05	-	.10	.08	.18	.08	.08	T	.57	.11	.02	.30	.02	.30	1.50	.20	-	
PAGO PAGO WSO AP	9.12	.11	.06	.06	-	.06	.12	.02	-	-	1.45	3.83	.09	.02	-	-	.01	.08	.68	.01	T	-	.01	T	.01	.83	.39	T	1.25	.02	T	
WESTERN PACIFIC ISL.																																
NORTH OF 12 N																																
AGAT	9.94	-	-	-	-	-	-	.15	.20	.80	.71	.35	-	.38	.10	.11	.05	.01	.14	.03	.66	.07	.62	.27	-	.28	.13	.20	.18	.93		
ANDERSEN AFB GUAM	7.62	-	-	-	-	.31	-	.15	.11	.62	.73	1.03	.49	.38	.10	.11	.05	.01	.14	.03	.66	.07	.62	.27	-	.28	.13	.20	.18	.93		
CLARK AFB LUZON	10.81	.43	T	-	.01	.31	-	.15	.11	.62	.73	1.03	.49	.38	.10	.11	.05	.01	.14	.03	.66	.07	.62	.27	-	.28	.13	.20	.18	.93		
DEDEO	14.06	-	-	-	.20	-	-	.10	1.90	2.20	1.28	.21	.26	.05	.32	.57	.52	1.60	.36	.60	.14	.50	.60	.14	.50	.60	.14	.50	.60	.14	.50	
GUAM NAS	11.55	.66	-	-	.06	.09	.04	.21	.23	.36	.20	.05	.97	.25	.55	.08	T	1.46	.15	.92	T	T	1.03	2.13	1.32	T	.06	.73	-	-	-	
GUAM WSO	8.34	-	-	.11	.11	.21	.04	.31	.31	.98	.72	.10	.03	.57	.38	.01	.05	T	.66	.12	1.60	.02	-	.84	.21	.05	.04	.10	.77	-	-	
INAGAJAN AG STN	13.63	-	-	-	.27	.29	.15	.10	.61	.17	.05	.76	.10	T	.20	.50	1.40	.22	6.00	.05	.22	-	.12	.10	.03	.08	.47	.80	-	-	-	
INAGAJAN - NASA	4.35	-	-	.10	-	.03	.03	.30	.28	.10	.18	-	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	
MANILA	4.35	-	-	.10	-	.03	.03	.30	.28	.10	.18	-	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	.35	.20	
SAIPAN LODAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UMTAC	-	-	-	-	-	-	-	.01	.50	1.00	.10	.05	.20	.10	1.00	1.55	.24	.68	.32	1.10	1.05	2.00	1.20	2.00	.33	.42	-	1.70	-	-	-	
WAKE ISLAND WSO AP	4.58	1.14	.02	.13	.10	.03	.03	.01	.01	.02	.03	T	.01	T	.08	.13	.04	.11	.23	.52	.21	.03	.08	.16	1.32	.11	.04	.13	.40	-	-	
YIGO	9.51	-	-	-	-	.50	.20	.10	.48	.60	.27	.57	.70	*	.22	1.53	.20	.80	.50	.10	.50	.60	.53	.58	-	-	-	-	-	-	-	
CAROLINE AND MARSHALL ISLANDS																																
ENEKETAK																																
FALALOP I ULITHI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPINGMARANGI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KOSRO WSO	12.29	.04	.08	-	.36	.21	.31	.15	.18	.03	.01	.54	.06	.35	.21	.74	1.58	2.67	.60	.48	.11	2.05	.50	.81	.84	.31	.78	-	-	-	-	
KURAJEIM MISSILE RGN	8.44	.01	T	-	.16	.21	.02	T	.70	.35	.29	.77	-	.30	.13	.24	.07	.03	.31	.10	.40	.15	2.17	T	-	-	-	-	-	-	-	
LELE I KOSRAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAJURO WSO AP	6.54	.04	.54	T	.09	.06	T	.77	.12	.15	1.38	.01	.10	T	.20	T	1.01	T	T	.08	.17	T	.08	.36	.52	.65	.24	.72	T	.03	-	-
METALANIM	7.88	.07	.44	.27	.05	.02	.15	.02	.17	.03	.11	.02	1.50	T	.09	T	.03	T	.08	.17	T	.08	.36	.52	.65	.24	.72	T	.03	-	-	
NGASAND-BABEL THUAP	-	-	-	-	.50	.75	.28	.06	.01	.17	.03	.11	.02	1.50	T	.09	T	.03	T	.08	.17	T	.08	.36	.52	.65	.24	.72	T	.03	-	-
PONARE WSO	6.57	.10	.10	.11	.02	T	.22	.48	.16	.49	.41	T	-	.15	.08	.14	.04	.14	.05	.25	.38	.78	.23	.26	.43	.33	1.20	-	-	-	-	-
SATAVAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRUK MDEN I WSO AP	10.44	-	.01	1.98	.45	.10	.04	.23	.05	.36	.01	.06	.36	.01	.06	T	T	.48	T	.30	.54	.42	1.18	-	1.72	.01	.53	1.77	.17	-	-	
WOLEAI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YAP WSO AP	9.59	T	-	-	T	.04	-	-	.67	T	.06	.01	.11	.62	.02	-	.73	-	.52	1.56	.06	1.97	.32	1.26	.51	.48	.11	.54	-	-	-	

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DAILY TEMPERATURES

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	77 48	75 51	72 55	70 57	71 58	75 55	74 59	77 54	70 56	75 50	76 50	78 50	78 56	72 56	77 59	75 59	76 48	76 47	77 49	75 52	74 55	74 54	73 49	74 54	75 58	75 56	74 58	71 55	74 50	74 54	74.5 53.7	
KILAUEA POINT 1133	MAX MIN																																
LIHUE WSO AP 1020-1	MAX MIN	88 71	87 74	87 76	86 75	87 77	87 73	87 79	87 78	86 75	87 71	87 72	88 78	87 74	87 70	87 72	86 72	86 70	86 72	86 72	87 72	87 75	87 72	87 77	87 78	87 78	87 78	84 74	85 70	86 77	86.5 74.4		
NIU RIDGE 1035	MAX MIN				91 67	90 67	82 67	81 67	82 66	83 67	89 67	89 68	89 67	90 67	90 66	89 69	85 66	86 64	83 64	84 65	87 65	87 63	90 67	87 68	91 64	90 64	90 66	91 66				88.5 66.0	
WAIHAI LOWER 1054	MAX MIN	83 64	84 66	84 67	82 69	84 69	83 66	81 67	82 67	83 68	84 67	82 66	83 65	83 68	84 63	82 66	84 64	83 65	82 65	83 66	80 68	84 65	82 67	80 66	84 65	82 67	80 66	79 65	80 67	83 68	84 65	82.5 66.0	
WAIKAE 947	MAX MIN	90 71	89 73	90 72	88 72	90 72	90 71	90 72	89 69	90 72	88 72	87 72	88 71	89 71	91 71	88 72	87 74	88 69	88 69	88 70	90 68	88 71	89 70	90 70	88 70	88 70	91 69	92 68	92 70	88 71	87 71	89 71	89.1 70.8
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN				86 73	84 72	89 72	88 73	88 74		89 72	90 71	90 71	89 73	88 73	87 72		90 71	89 71	88 71	88 72	86 71				89 71	82 73	86 72	86 72				
B Y U LAIE 903-1	MAX MIN	86 71	86 72	87 72	85 76	86 75	87 71	86 73	86 73	86 74	86 71	86 71	86 77	88 77	88 74	86 74	85 73	87 72	86 72	86 71	86 70	90 70	92 74	87 74	84 76	84 76	85 75	84 75	85 73	81 75			86.1 73.3
HONOLULU OBSERV 702-2	MAX MIN	93 69	92 71	91 69	90 72	85 69	91 70	92 69	92 70	92 71	88 70	87 69	90 71	92 69	92 69	91 69	90 68	89 67	87 66	89 66	89 66	90 66	90 67	90 68	91 70	88 71	90 69	90 72	90 69	86 69	86 70	89.8 69.2	
HONOLULU WSO AP 703	MAX MIN	91 73	91 76	90 73	83 72	91 72	90 73	89 74	90 72	88 73	90 71	92 71	91 75	89 73	89 72	92 70	91 70	88 70	91 68	90 73	88 74	90 73	88 72	90 74	85 72	89 73	89 74	89 75	86 70	89 73	91 76	89.4 72.7	
KANEHE MAUKA 781	MAX MIN	85 77	85 75	86 76	82 74	83 75	85 75	85 74	85 74	84 74	85 74	85 75	85 75	84 75	85 74	84 74	85 75	86 73	86 74	86 74	84 74	85 74	85 74	83 74	84 75	85 75	83 74	84 75	81 73	83 74	82 75	84.3 74.4	
MANOA LYON ARBORETUM	MAX MIN	83 73	84 74	80 73	78 71	82 71	84 70	83 71	82 71	83 70	86 70	85 71	84 71	82 69	80 72	82 70	85 70	85 72	85 69	81 70	81 71	81 70	83 70	80 71	81 70	78 71	79 68	80 68	82 69	83 69	82 70	82.3 70.4	
OPAEULA 870	MAX MIN	85 70	82 72	82 72	88 70	89 69	88 70	88 71	85 68	83 69	88 68	88 70	86 71	83 71	82 68	87 71	86 66	85 67	88 68	83 68	83 67	82 67	83 68	82 67	83 68	82 68	82 69	82 69	82 68	82 68			84.5 68.8
WAIKALEE 896-3	MAX MIN	86 73	85 75	84 73	86 74	87 74	87 74	86 73	85 74	86 75	87 74	87 75	85 76	87 76	87 73	85 72	87 70	87 72	85 71	87 72	85 69	85 71	85 75	85 74	85 74	84 74	85 74	84 74	85 71	84 72	86 73	86 73	85.7 73.2
WAIKALUA 847	MAX MIN	91 66	86 68	86 68	86 66	86 68	90 67	89 66	86 68	84 67	86 66	90 66	91 65	90 65	89 64	90 62	92 65	90 64	91 65	89 65	89 65	88 66	88 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	86 66	87.9 65.5	
WAIKIKI 717-2	MAX MIN	91 71	90 70	89 71	90 72	89 72	91 72	91 73	90 72	91 72	92 72	92 71	92 73	92 71	93 69	90 67	92 70	93 68	91 68	91 67	91 65	89 67	90 70	90 74	90 74	87 71	89 71	89 71	88 69	89 75	89 75	90.4 70.7	
WAIMANALO EXP FM 795-1	MAX MIN	86 75	87 76	86 75	85 75	86 76	88 76	87 75	88 73	88 73	87 70	87 76	87 75	86 76	87 71	87 74	87 74	87 72	87 70	87 71	88 71	88 75	86 73	86 74	86 74	86 74	84 74	85 75	86 73	85 75	85 75	86.4 73.9	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	91 74	89 74	87 74	89 73	87 73	93 73	89 72	90 73	88 70	88 69	90 69	92 73	90 72	87 70	88 72	88 73	91 66	89 68	91 68	90 68	91 69	87 70	85 72	90 73	89 74	92 70	90 74	88 69	88 73	88 72	89.2 71.4	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	86 67	87 70	84 69	86 70	78 66	83 69	82 67	82 68	82 68	83 67	85 69	82 68	86 67	85 66	85 66	80 66	82 65	81 64	81 66	84 66	84 66	84 65	84 65	82 65	80 65	83 65	81 65	82 66	82 67	79 69	82.8 66.8	
LANAI CITY 672	MAX MIN	78 67	78 68	78 67	77 67	78 67	80 68	79 67	78 67	77 66	82 65	81 67	81 67	79 68	80 66	81 66	79 64	80 63	81 62	79 63	78 62	79 62	79 62	78 62	79 62	80 62	78 62	78 64	80 64	78 66	77 67	79.1 65.7	
ISLAND OF MAUI																																	
HOLEKALA R S 338	MAX MIN	71 53	69 51	71 44	65 49	68 47	65 49	65 48	65 46	64 50	66 45	69 48	70 45		61 47	69 44	65 43	66 36	61 41	63 41	66 48	66 52	66 41	66 44	66 44	60 49	61 43	62 43	65 42	65 46	68 51	65.6 46.2	
HANA AIRPORT 355	MAX MIN	85 79	84 72	82 72	81 71	84 72	84 72	83 72	82 72	82 72	82 72	87 72	87 72	87 70	85 69	86 71	88 70	88 69	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	87 67	85.2 73.2	
KAAHAPALI AP 453-1	MAX MIN	89 70	89 73	89 71	88 71	86 69	87 71	91 72	90 69	91 68	88 68	87 69	89 71	89 69	90 66	89 64	90 67	87 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	89 67	88.8 69.6
KAHULUI WSO 398 AP	MAX MIN	88 58	88 59	88 59	92 72	90 68	89 70	92 76	88 75	93 71	90 70	92 70	91 70	90 76	91 74	92 67	91 66	92 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	91 68	90.0 71.8
KAILUA 446	MAX MIN	80 70	84 71	80 70	78 70	80 70	81 71	80 70	80 66	78 67	80 66	81 67	81 69	80 71	80 68	80 72	80 70	81 68	80 73	80 72	80 70	80 70	80 70	80 70	80 70	80 70	78 68	79 68	79 68	78 67	79.9 69.3		
KEAWAKAPU BEACH 260-2	MAX MIN	89 67	87 68	93 68	91 67	88 67	91 67	86 67	88 67	87 69	89 69	91 67	91 67	92 67	89 65	89 66	89 67	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	90 66	89.8 67.4
KULA BRANCH STN 324-5	MAX MIN	79 58	79 60	79 60	72 57	78 58	79 59	78 57	77 58	75 61	74 58	78 57	77 57	78 58	78 57	76 56	77 56	77 55	78 55	79 55	79 55	79 55	79 55	79 55	79 55	79 55	79 55	79 55	79 55	79 55	79 55	77.1 57.9	
KULA HOSPITAL 267	MAX MIN	78 58	78 59	78 59	77 59																												

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DAILY TEMPERATURES

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 361	MAX MIN	91 70	92 72	91 71	90 73	89 70	92 70	90 68	89 68	90 69	89 67	89 69	90 69	92 68	92 67	90 70	90 67	90 69	89 66	89 67	90 67	91 70	92 69	86 71	90 66	90 67	91 67	88 67	84 70	83 74	89.6 68.8		
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	82 53	78 51	77 51	77 54	77 56	78 55	76 56	76 56	80 51	75 55	79 58	79 59	77 57	75 55	76 52	76 53	76 54	79 59	72 54	79 54	74 51	76 56	74 53	76 57	71 57	69 51	70 51	77 55	74 58	72 58	75.9 54.7	
HILO WSO AP 87	MAX MIN	85 59	84 72	85 70	85 67	85 67	85 67	85 68	85 68	88 66	86 68	87 68	85 70	84 66	85 69	86 68	87 66	87 66	85 68	86 65	86 66	86 66	86 68	86 66	81 69	83 66	83 66	85 68	84 68	84 71	85 71	85.1 67.8	
KAINALIJ 73-2	MAX MIN	80 65	78 66	77 67	79 68	80 66	81 68	80 67	79 66	83 68	80 67	82 65	79 66	83 66	78 65	80 64	80 66	80 65	80 64	81 64	77 64	82 64	82 68	79 65	82 67	80 66	81 64	81 66	84 65	81 68	80.3 65.8		
KAMUELA 192-2	MAX MIN	78 64	76 64		79 58	73 64	80 64	76 64	76 65	77 54	79 54	78 56	80 65	77 61	75 62	75 57	78 59	78 63	79 63	76 65	75 63	76 63	76 64	75 65	77 64	78 64	76 69	78 64	76 56	77 64	80 65	77.0 62.2	
KAPOHO BEACH 93.11	MAX MIN	90 72	89 73	87 71	93 70	93 70	92 70	90 70	88 70	90 69	93 70	93 70	92 72	89 72	89 69	90 70	92 70	93 68	90 69	91 69	91 69	90 69	90 71	92 71	90 70	85 69	84 69	84 69	89 69	84 70	84 70	89.6 70.0	
KONA IKAILUAI 68.3	MAX MIN	88 75	85 75	85 74	88 74	86 71	88 72	87 74	87 72	87 72	88 76	87 75	87 71	88 72	87 72	89 72	88 73	87 74	86 69	85 69	85 71	86 71	86 71	88 71	88 71	87 74	88 72	88 74	87 74	87 72	87 74	87.2 72.7	
KULANI CAMP 79	MAX MIN	73 55	69 57	69 51	68 48	69 48	70 60	72 62	69 56	72 47	70 53	72 50	72 60	72 50	69 50	69 45	68 50	69 52	71 55		70 47	63 48	69 53	68 58	67 52	67 52	64 53	61 50	69 50	67 60		68.9 52.6	
MAUNA KEA OBS 111.2	MAX MIN	48 23	52 36	50 34	50 30	50 30	52 24	53 31	59 35	54 51	60 34	58 38	54 32	51 32	51 30	52 31	52 30	50 33	50 31	52 33	52 35	55 37	53 41	57 40	56 33	55 35	56 35	54 32	47 25	47 24	42 24	52.5 32.2	
MAUNA LOA SLOPE OBS	MAX MIN	55 41	56 40	55 40	53 39	57 36	55 39	58 40	59 38	55 41	55 39	57 40	59 41	54 38	59 40	55 42	54 37	57 39	52 38	54 36	55 38	58 40	59 41	57 41	52 39	58 39	57 38	57 37	55 40	55 42	54 44	55.3 39.4	
MOUNTAIN VIEW 91	MAX MIN	83 63	81 67	81 63	83 62	83 61	83 62	84 63	81 62	83 61	83 61	84 62	84 65	82 63	82 62	83 60	83 59	83 59	85 65	79 61	81 59	82 60	84 62	81 61	83 64	75 64	77 60	76 62	83 64	81 64	78 65	81.7 62.2	
NAALEHU 14	MAX MIN	81 63	81 67	79 66	85 64	83 68	84 62	84 63	82 67	83 66	86 68	83 69	84 70	85 66	85 66	80 67	80 67	84 67	84 66	81 67	84 68	83 68	81 68	81 69	84 68	80 68	82 68	82 68	83 69	80 68	78 69	82.4 67.0	
OOKALA 223	MAX MIN	83 71	83 71	82 70	82 71	82 69	84 71	83 70	83 69	82 72	83 71	83 69	85 69	84 68	83 70	84 64	83 66	84 70	83 66	83 68	83 69	83 69	84 72	84 70	84 69	84 69	82 66	84 68	81 70	79 69	81 71	82.9 69.3	
OPIHIHALE 2 24.1	MAX MIN	81 62	83 65	81 65	76 61	81 63	82 64	79 64	81 64	82 64	85 64	82 63	85 64	81 62	82 60	83 60	82 63	83 62	82 64	83 61	79 61	81 59	81 63	81 62	81 65	84 65	81 65	81 65	81 65	82 65	81 65	81 62	81.6 62.8
PUUKOHOLA HEIAU 98.1	MAX MIN	95 61	93 60	95 60	91 72	91 72	91 75	92 74	90 74	92 72	91 73	91 71		92 74	95 72	92 70	93 70	90 70	91 69	91 71	91 72	91 71	93 69	92 69	95 74	91 71	91 74	90 72	90 73	89 73	91.7 70.6		
SOUTH KONA 2-31	MAX MIN	78 57	72 61	72 60	80 61	79 62	80 63	75 63	82 60	73 63	80 60	77 62	80 60	74 57	75 55	75 61	77 60	75 58	75 58	72 56	70 58	76 55	74 57	76 54	77 60	76 62	78 64	79 62	76 59	80 60	77 64	76.3 59.7	
UPOLU POINT USCG 159-2	MAX MIN	88 71	89 69	87 73	87 72	88 73	87 73	87 73	88 71	85 72	89 71	88 74	87 72	88 74	87 73	87 72	88 71	88 72	88 72	88 73	88 72	88 73	88 72	88 74	87 73	88 72	87 69	88 70	88 72	88 71	87 70	87.6 71.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	86 80	87 78	87 77	87 78	87 80	87 79	87 79	87 80	88 75	87 79	87 79	87 80	87 76	87 77	87 79	87 77	87 79	87 74	86 76	86 78	86 80	86 76	86 75	86 75	87 80	87 80	86 79	88 79	88 80	88 80	86.9 78.1	
MIDWAY SAND ISLAND	MAX MIN	89 73	86 74	88 78	82 76	87 75	90 76	92 75	89 77	84 74	86 76	90 75	88 77	87 77	87 78	87 77	88 75	87 76	84 73	85 73	88 76	89 78	86 78	86 77	85 75	84 74	85 77	86 74	84 74	85 73	86.8 75.6		
PAGO PAGO WSO AP	MAX MIN	84 76	84 78	86 78	86 77	86 76	84 74	85 76	84 78	86 77	83 74	77 70	82 72	84 76	84 76	86 76	85 77	86 78	88 76	84 77	85 78	86 78	87 77	88 76	83 76	86 76	86 75	82 75	87 75	86 74	86.9 76.0		
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	89 77	87 77	86 77	87 78	87 77	86 79	86 79	87 78	85 78	85 78	80 76	83 76	84 77	84 77	85 77	84 77	85 79	86 79	85 77	84 75	85 78	79 75	83 76	84 77	84 79	84 78	84 76	84 77	85 79	85 78	84.7 77.4	
CLARK AFB LUZON	MAX MIN	90 74	87 72	87 74	90 76	92 76	92 77	92 77	90 77	88 76	92 77	90 76	88 77	92 76	90 76	85 79	86 77	90 76	92 76	85 76	83 76	83 76	90 76	92 76	92 76	92 76	92 77	92 76	92 76	85 76	88 74	89.6 76.3	
GUAM NAS	MAX MIN	89 76	89 75	87 76	90 76	92 79	92 78	91 76	91 78	89 78	90 76	83 75	89 75	91 77	90 76	90 78	90 78	90 77	90 78	89 75	88 77	88 75	82 75	89 76	90 74	89 75	89 75	80 75	88 77	89 78	90 74	89.2 76.4	
GUAM WSMO	MAX MIN	87 67	87 67	87 68	88 67	88 67	89 70	87 72	89 72	87 72	87 72	80 72	86 72	88 71	88 72	89 70	88 73	88 74	88 73	87 70	86 73	85 75	82 73	85 71	86 72	86 72	88 70	85 72	86 73	87 73	87 73	86.5 71.2	
INARAJAN - NASA	MAX MIN	89 73	88 72	88 72	90 70	90 69	89 69	89 73	88 74	88 75	88 75	89 72	86 71	87 71	88 70	88 72	88 75	88 75	88 76	87 72	88 75	88 75	88 73	86 71	89 75	88 75	86 73	87 73	87 73	88 72	88 73	87.9 72.9	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	86 72	87 80	88 76	87 77	88 78	90 78	89 78	89 79	89 79	90 80	90 79	88 79	90 79	90 80	90 80	90 79	88 76	88 77	88 77	88 76	87 77	88 77	88 73	88 79	88 77	88 78	90 78	89 80	90 78	88.5 77.7		
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENEMETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 75	89 75	90 75	90 76	92 74	90 75	86 75	89 76	88 76	90 76	89 76	89 76	91 77	90 76	89 76	90 78	88 77	91 76	90 77	89 77	91 77	88 75	82 72	87 75	88 74	89 74	90 78	85 73	87 74	85 74	88.7 75.5	
KWAJALEIN MISSILE RON	MAX MIN	90 80	90 82	88 78	90 80	90 78	87 78	87 79	88 79	89 80	86 76	86 77	87 78	88 77	88 81	88 81	88 80	87 76	89 78	86 76	88 78	88 80	90 76	89 78	86 77	88 76	85 75	88 80	88 76	88 77	88 76	87.9 78.1	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	88 76	89 77	86 75	87 77	85 77	86 76	87 75	88 78	85 74	85 75	87 77	88 77	88 75	88 78	89 78	88 78	87 75	88 78	88 80	89 79	89 79	89 79	88 75	87 73	87 75	84 78	87 76	87 75	87 78	87.3 76.6		
METALANIM	MAX MIN	88 70	88 69	89 71	89 71	89 71	89 69	89 68	88 69	90 70	89 69	89 71	87 71	89 69	89 70	91 68	90 68	81 70	91 74	90 72	90 72	89 72	91 72	86 71	87 71	87 71	91 70	87 70	91 70	88 69	89 71	88.7 70.3	
PONAPE WSO	MAX MIN	92 73	91 74	91 74	92 73	93 73	92 72	89 72	91 72	92 73	91 74	90 73	86 72	89 71	90 72	91 73	93 73	91 73	92 75	92 75	92 74	92 74	93 75	92 73	88 73	87 73	88 73	92 72	86 74	91 72	86 74	90.5 73.1	
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	91 75	89 75	90 81	91 74	89 75	90 75	88 75	89 75	89 75	90 77	89 76	89 76	91 76	90 76	91 76	91 77	91 76	88 76	84 76	90 76	89 76	87 77	90 77	89 75	86 75	89 75	90 77	88 77	83 76	84 78	88.8 76.0	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 75	90 73	89 74	90 75	92 76	90 75	87 74	89 74	90 73	89 74	89 74	88 75	89 73	89 74	89 77	89 75	88 75	90 74	90 75	89 74	88 73	86 75	88 75	86 71	87 74	86 72	88 74	87 74	86 77	88 73	88.5 74.2	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO AP 1020.1		EVAP	.38	.31	.33	.35	.24	.27	.37	.38	.30	.30	.30	.35	.33	.32	.33	.38	.38	.35	.30	.27	.35	.35	.40	.37	.39	.36	.30	.24	.31	9.91	
		WIND	105	120	177	206	158	127	181	184	142	105	72	142	147	142	90	104	133	124	133	164	123	139	194	181	218	220	202	162	109	129	4433
		MAX	89	88	85	85	86	88	89	87	88	90	90	89	88	87	88	88	88	88	88	86	87	88	88	86	85	83	86	85	88	88	87.3
		MIN	66	68	72	68	72	73	67	67	68	66	66	67	67	65	66	67	66	65	65	66	66	66	66	66	67	67	67	66	66	66	67.0
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP	.75	.75	.62	.60	.20	.45	.55	.60	.66	.75	.67	.60	.75	.75	.60	.60	.75	.55	.51	.60	.52	.45	.56	.60	.52	.60	.70	.60	.57	.60	18.03
		WIND	18	20	24	26	8	25	20	19	17	25	22	25	20	23	13	27	30	27	28	17	16	22	23	20	20	21	25	21	28	30	660
		MAX	100	96	96	93	91	94	96	95	95	97	95	94	95	95	95	94	94	95	95	90	93	93	94	94	89	93	94	93	96	91	94.2
		MIN	72	73	71	73	68	72	72	71	72	71	72	71	70	70	69	69	69	69	69	69	67	67	69	70	71	70	70	71	71	71	70.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.53	.39	.27	.35	.23	.34	.35	.28	.33	.34	.33	.41	.40	.36	.28	.25	.45	.47	.25	.36	.34	.32	.30	.30	.35	.36	.26	.09	.17	.42	9.88	
	WIND	246	183	124	161	157	138	186	141	125	115	152	177	172	165	96	135	141	143	153	181	178	178	185	183	175	192	176	132	97	145	4732	
PAGO PAGO WSO AP	EVAP	.18	.15	.13	-	.24	.14	.17	.20	.28	.15	-	-	.26	.25	.27	.27	.19	.23	-	.28	.31	.27	.27	-	.06	.24	.19	-	-	.26	6.518	
	WIND	192	179	154	128	100	129	213	239	201	209	179	183	134	131	156	157	119	97	158	190	184	182	160	108	35	103	75	141	58	29	4323	
	MAX	93	95	92	89	91	95	94	95	91	93	96	85	93	93	95	95	94	95	96	92	94	94	96	93	85	89	96	93	92	91	92.8	
	MIN	72	71	73	70	73	72	73	75	71	70	75	69	70	70	71	73	75	73	75	73	73	73	73	71	72	71	72	72	74	71	72.2	
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUM WSMO	EVAP	.30	.15	.39	.22	.15	.21	.22	.23	.29	■	■	.27	.14	.24	.06	.28	.17	.13	.11	.12	.21	.10	.02	.28	.27	.12	.17	.21	.04	.16	5.26	
	WIND	38	37	29	20	34	42	54	41	59	103	25	48	48	28	21	33	25	13	12	22	82	55	51	31	32	53	22	43	44	60	1205	
	MAX	93	93	95	92	90	92	90	95	89	89	91	94	91	91	91	92	89	91	90	86	89	83	90	91	88	89	90	86	89	90	90.3	
	MIN	70	71	71	70	70	71	71	72	73	72	71	71	70	72	72	74	73	74	71	73	72	72	71	70	73	71	71	72	73	72	71.6	
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	.19	.18	.22	.20	.30	.25	.11	.22	.29	.15	.12	.15	.19	.22	.25	.25	.20	.16	.20	.23	.22	.42	.21	.30	.02	.16	.19	.20	.16	.19	6.15	
	WIND	24	17	30	34	46	51	58	51	39	35	30	32	31	26	47	39	39	40	22	29	68	64	98	73	32	33	35	80	96	81	1380	
	MAX	99	95	95	99	98	96	90	99	99	94	99	94	98	98	98	99	98	98	98	100	99	98	97	90	89	87	84	95	95	86	91	95.2
	MIN	76	77	76	76	77	76	75	75	76	77	76	77	76	77	76	76	75	76	77	77	78	73	74	75	74	75	73	73	75	75	75.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAHU 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA		22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALEI		22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIWA 943	9253	03	WAIIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO		21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS CHARLES COOKE
KANEOME MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240				C	
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM												
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650	8A	8A			LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB CC DEPT PKS RECREATION
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERVR 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718												
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	
PUNALUU PUMP 905.2	8314	01	KOOLAULOA		21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690		8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	
WAIHOLE 837												
WAIALAE KAHALA 715	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALAE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL U H WAIMANALO EXP FARM
WAIALAE 896.3	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALUA 847	9190	01	KOOLAULOA		21 41	158 02	33	8A	8A			
WAIANAE 798.2	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		C	
WAIHAWA 836	A 9231	04	WAIANAE		21 27	158 11	10		7A			
WAIKANE 885	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKIKI 717.2	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAILUPE VLY SCH 723.6	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAIMANALO EXP FM 795.1	9500	02	HONOLULU		21 18	157 45	180				C	
	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2												
WAIHEA 892	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIPAHU 750	9593	05	WAIALUA		21 38	158 04	330				C	
WILHELMINA RISE 721	A 9738	03	EWA		21 23	158 01	59		8A			
	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
KALAUAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S O A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S O A U S O A KOELE COMPANY KOELE COMPANY
KAUNALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C	
LANAIHALE 684	A 5301	01	LAHAINA		20 49	156 53	3370		WI			
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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ISLAND OF MAUI												
RUWAHI 252	A	0175	02	HANA	20 37	156 20	2060		VAR			C
FIELD 46 474		0541	04	LAHAINA	20 59	156 38	1050					
HAELAAU 477	A	0790	04	LAHAINA	20 57	156 36	2980		MO			
HALEAKALA EXP FARM 434A	A	0995	01	MAKAWAO	20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	20 50	156 19	1850		8A			
HOLEAKALA R S 338		1004	02	MAKAWAO	20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A	1075	01	MAKAWAO	20 52	156 21	1070		3A			
HAMAKUAPOKO 485		1086	01	MAKAWAO	20 55	156 21	320		5A			
HANA AIRPORT 355		1125	01	HANA	20 48	156 01	61	8A	8A			C
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	20 45	156 13	6930		MO			
HONOKOHU 480	A	1882	04	LAHAINA	20 58	156 36	870		MO			
HONOKOHU 493	A	1887	04	LAHAINA	21 00	156 39	135		6A			
HONOLUA FIELD 49 494	A	1914	04	LAHAINA	21 01	156 38	125		MO			
HONOMANU GULCH 341	A	1935	01	MAKAWAO	20 47	156 14	6280		MO			
KAAHAPALI AP 453.1		2307	04	LAHAINA	20 56	156 42	8	8A	8A			
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	20 59	156 33	650					C
KAHOMA INTAKE 374	A	2552	04	LAHAINA	20 54	156 38	2000		MO			
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	20 54	156 26	48	MID	MID			C J
KAILIILI 436	A	2630	01	MAKAWAO	20 51	156 16	2520		MO			
KAILUA 446		2679	01	MAKAWAO	20 54	156 13	700	7A	7A			
KAUAULA INTAKE 375	A	3433	04	LAHAINA	20 53	156 38	1585		WI			
KAUPO RANCH HOUSE 259		3576	02	HANA	20 39	156 08	1020					C
KEAHUA 410		3910	03	MAKAWAO	20 52	156 23	480		5A			
KEANAE 346	A	4091	01	HANA	20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	20 42	156 27	20	8A	8A			C
KIHEI 311		4489	03	WAILUKU	20 47	156 27	90		7A			
KIPAHULU 258		4634	01	HANA	20 39	156 04	260		7A			
KUKUI 380	A	4887	04	LAHAINA	20 54	156 35	5788		MO			
KULA BRANCH STN 324.5		5000	02	MAKAWAO	20 46	156 20	3050	1P	7A			C
KULA HOSPITAL 267		5006	02	MAKAWAO	20 42	156 22	3004	7A	7A			
LAHAINA 361		5177	04	LAHAINA	20 53	156 41	45	7A	7A			C
LAUNIUPOKO INTAKE 376 A		5404	04	LAHAINA	20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	20 51	156 39	220		7A			
LUPI UPPER 442	A	5665	01	MAKAWAO	20 53	156 15	1240		MO			
MAHINAHINA 466	A	5715	04	LAHAINA	20 57	156 40	715		7A			
MOKUPEA 475	A	6521	04	LAHAINA	20 59	156 37	1290		MO			
NAKALELE FIELD 60 497 A		6645	04	LAHAINA	21 02	156 36	340		VAR			
OLINDA 332	A	7040	01	MAKAWAO	20 48	156 17	4127		VAR			
OLOWALU 296.1		7059	04	LAHAINA	20 49	156 37	20		7A			
PAAKEA 350		7194	01	HANA	20 49	156 07	1260		VAR			C
PAIA 406		7566	01	WAILUKU	20 55	156 23	170		6A			
PANILEIHULU 259.2	A	7674	02	HANA	20 41	156 08	3570		MO			
PEAHI 488.6		7952	01	MAUI	20 54	156 17	830					C
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	20 41	156 20	6150		VAR			
PUOHOKAMOA 2 343	A	8336	01	HANA	20 50	156 13	2980		MO			
PUUNENE 396		8543	03	WAILUKU	20 53	156 27	60		7A			
PUU PAKI 352	A	8553	01	HANA	20 46	156 03	2160					S
SPRECKELSVILLE 400.2		8688	03	WAILUKU	20 54	156 25	85		8A			
TWIN GATES 261.3	A	8742	03	MAKAWAO	20 46	156 23	1310					
UKULELE 333	A	8744	01	MAKAWAO	20 48	156 15	5230		MO			
UKUMEHAME 301	A	8750	04	LAHAINA	20 48	156 35	75		7A			
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	20 39	156 24	1900		8A			C
WAHIKULI 364	A	8955	04	LAHAINA	20 54	156 40	580		8A			
WAIHEU CAMP 484	A	9275	03	WAILUKU	20 55	156 31	320		6A			
WAIHEE VALLEY 482	A	9315	04	WAILUKU	20 57	156 32	300		6A			
WAIKAMOI 449	A	9332	01	HANA	20 52	156 12	1200		MO			
WAIKAMOI DAM 336		9335	01	MAKAWAO	20 49	156 14	4320					C
WAIKAPU 390	A	9376	03	WAILUKU	20 51	156 31	370					C
WAILUA IKI 348	A	9460	01	HANA	20 48	156 09	2630					S
WAILUKU 386	A	9484	03	WAILUKU	20 54	156 30	180		7A			
WAILOPAI RANCH 256	A	9765	02	HANA	20 38	156 12	220		OC			
ISLAND OF HAWAII												
AHUA UMI 75	A	0040	05	N KONA	19 38	155 47	5220		MO			
AMAULU 89.2		0150	02	HILO	19 44	155 09	1490		8A			
HAUNA 214		0840	01	HAMAKUA	20 06	155 28	461		8A			
W H GREENWELL RANCH												
MAUNA KEA SUGAR CO												
DAVIES HAMAKUA SUGAR CO												

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A		C	K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		M0			STATE DIV OF FORESTRY
HONANAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		M0			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		M0			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120				C	RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALOHA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAHA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		M0			STATE DIV OF FORESTRY
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30	7A			C	FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAI 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	5761	02	HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KA'U		19 11	155 30	600		M0			KAWAIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A		C	DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PARAHU 217	7204	01	HAMAKUA		20 05	155 26	415		8A		C	DAVIES HAMAKUA SUGAR CO
PAUULO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683				C	GEORGE SALAZAR
PAPAIKOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO		19 47	155 08	1285		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		M0			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		M0			W H GREENWELL RANCH

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			C PUUHONUA-O-HONAUNAU 27.4 PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLDMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	R 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHUEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE
NEW STATIONS												
WESTERN PACIFIC ISL. NORTH OF 12 N												
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

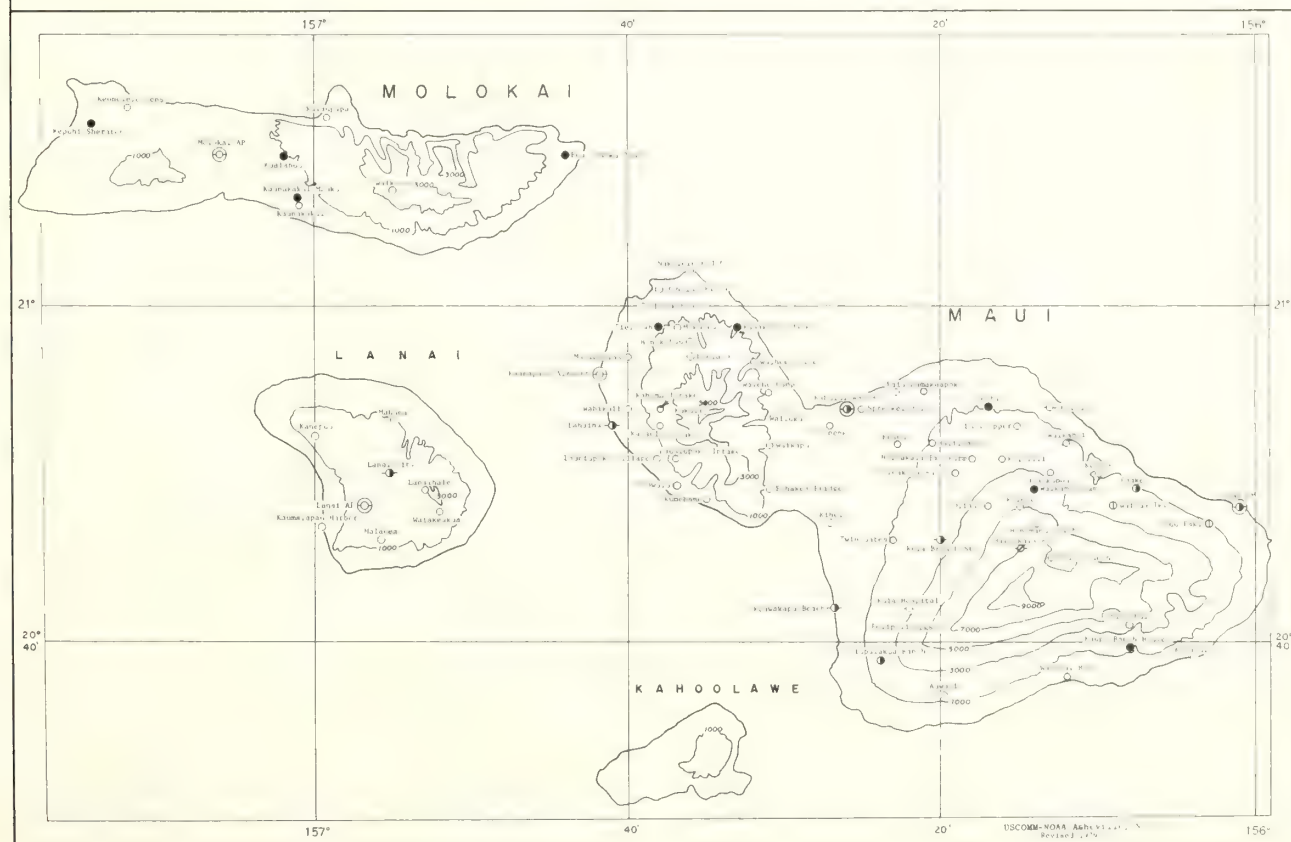
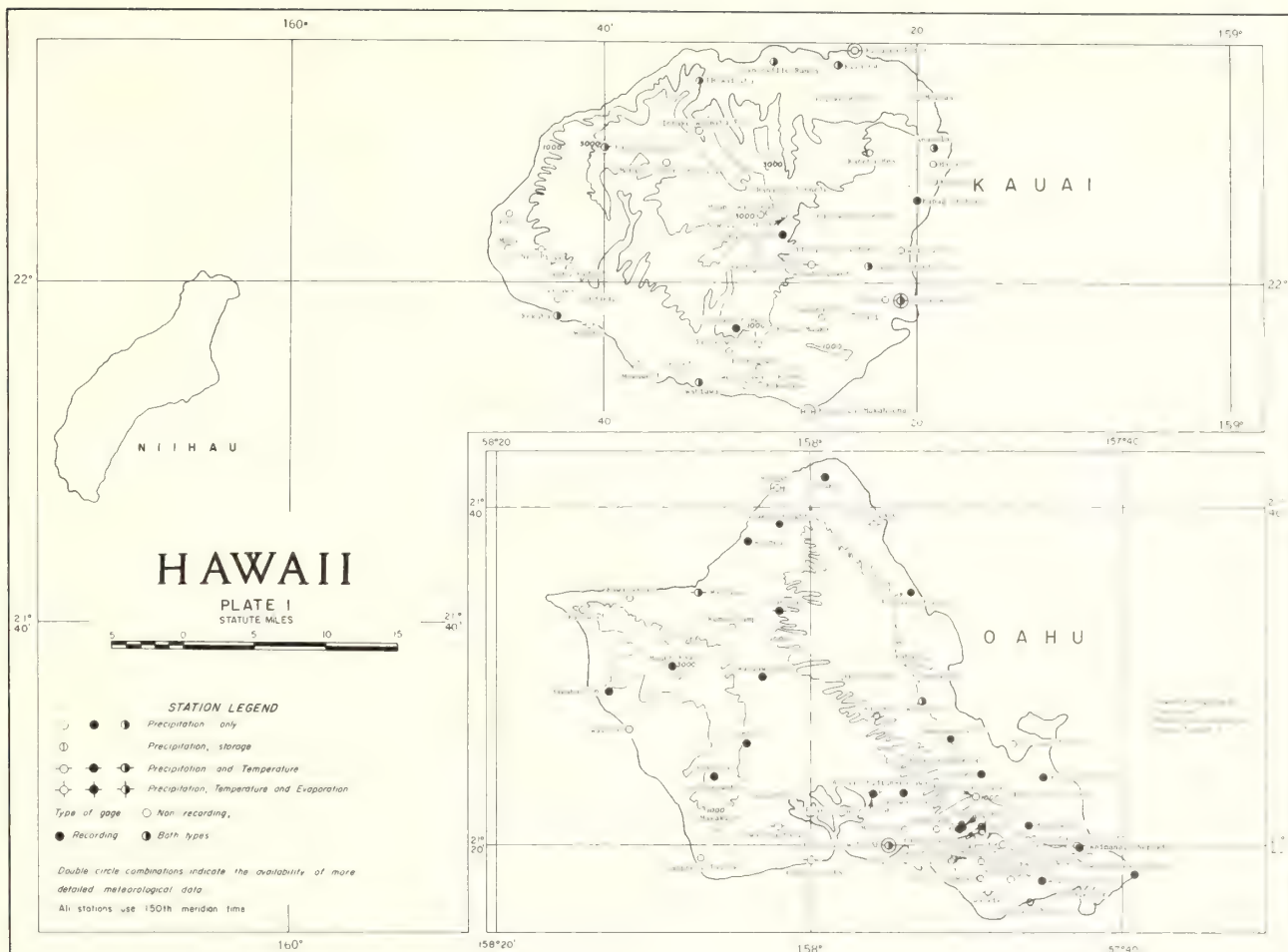
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

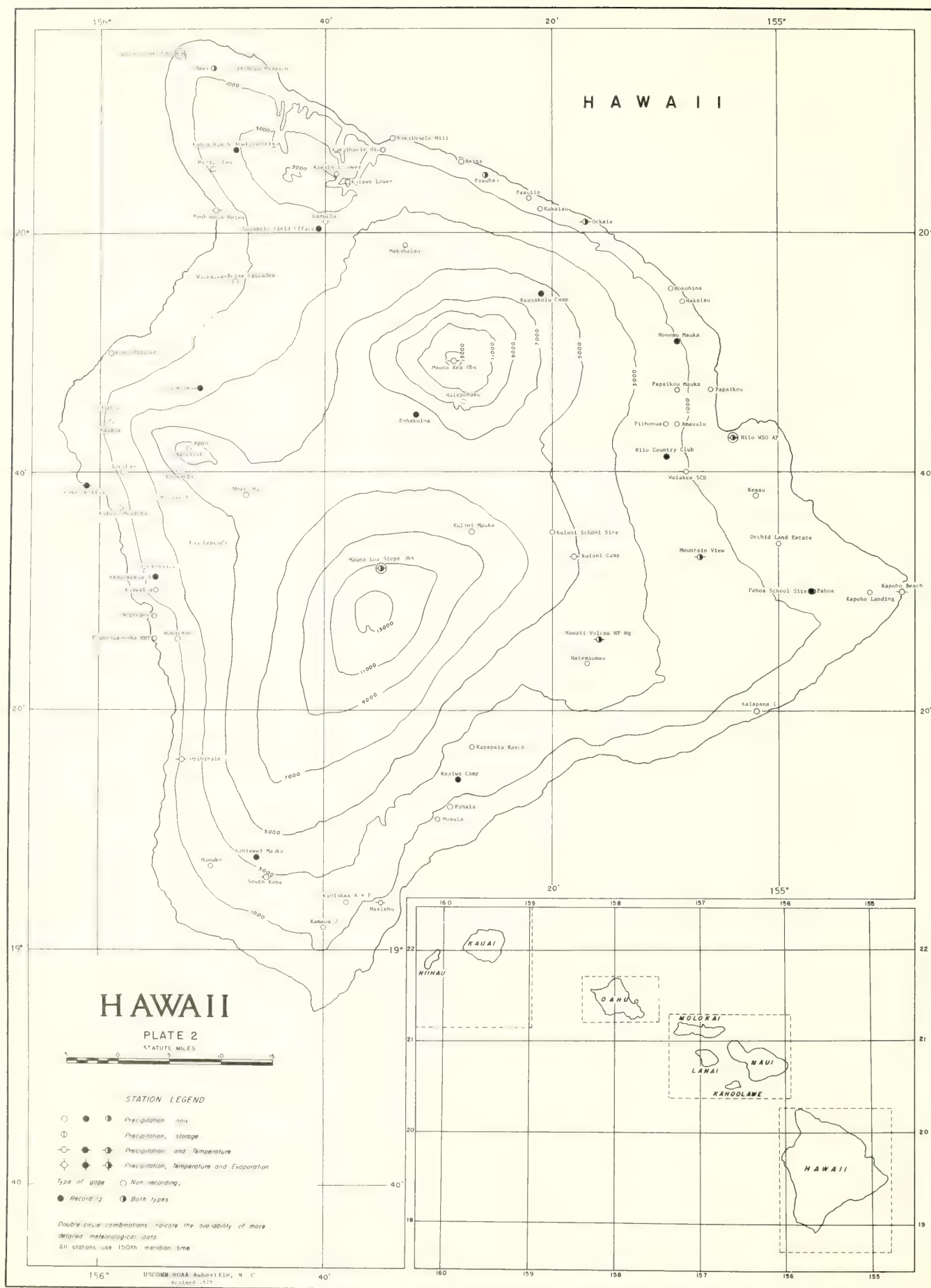
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

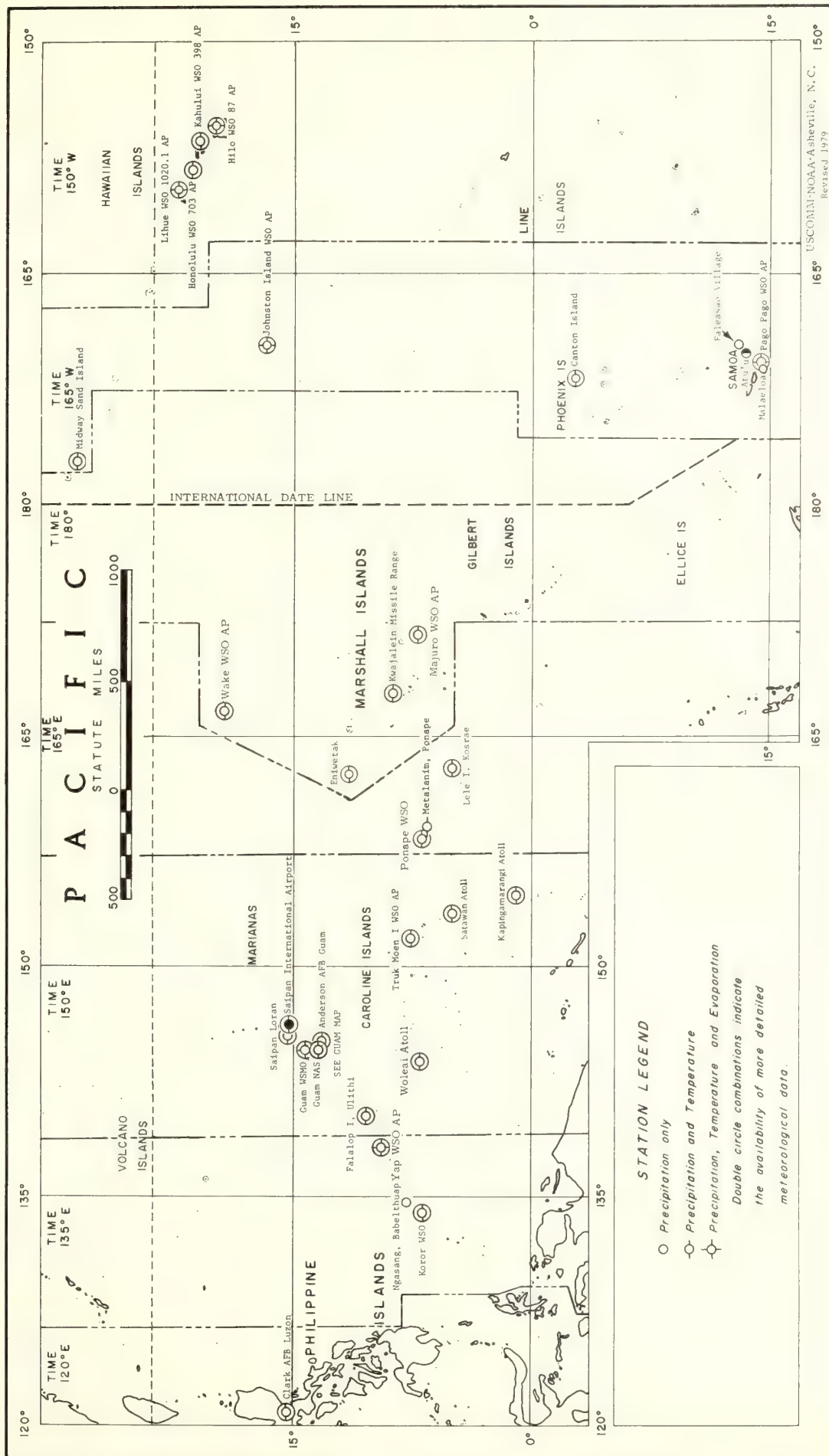
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

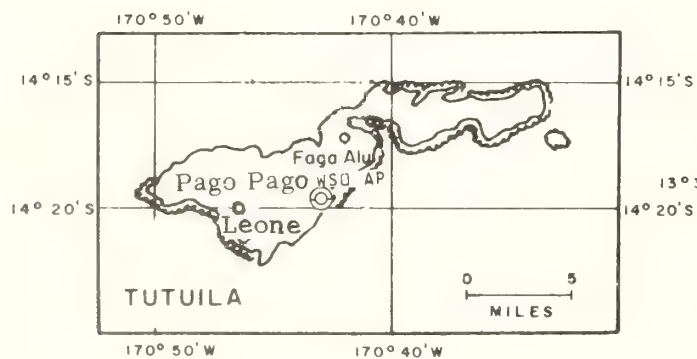
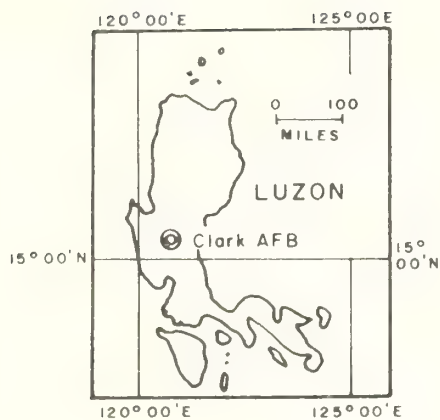
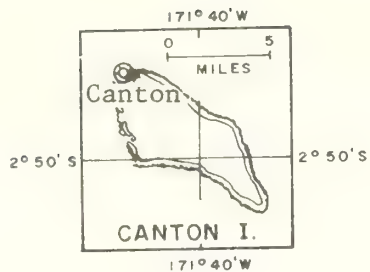
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

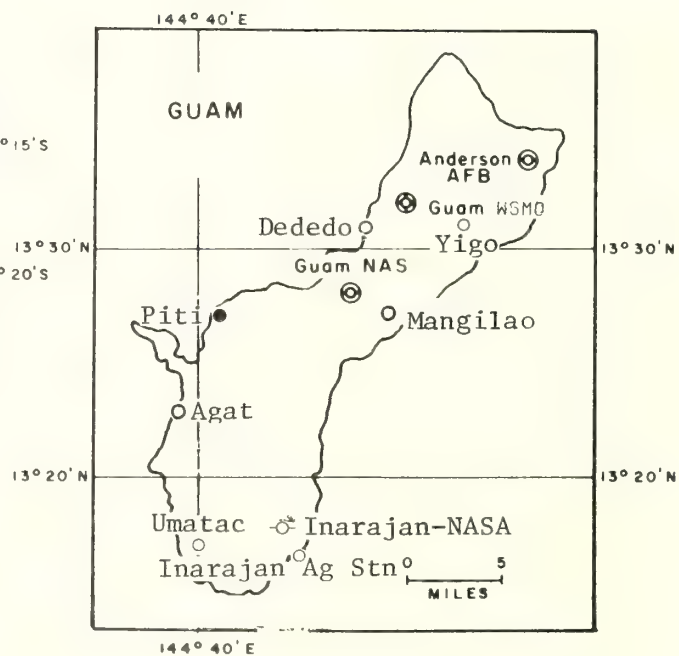


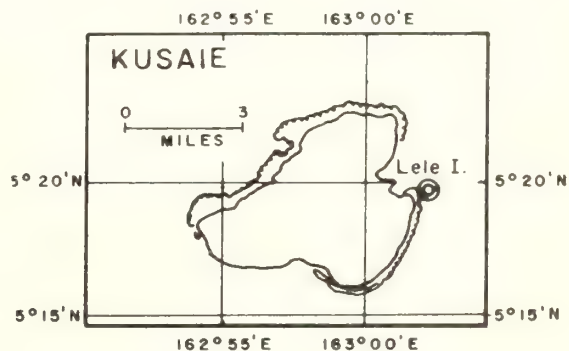
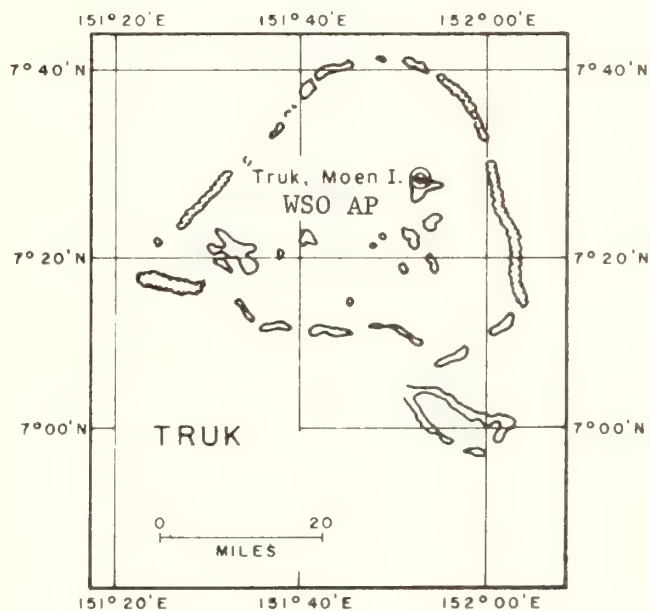
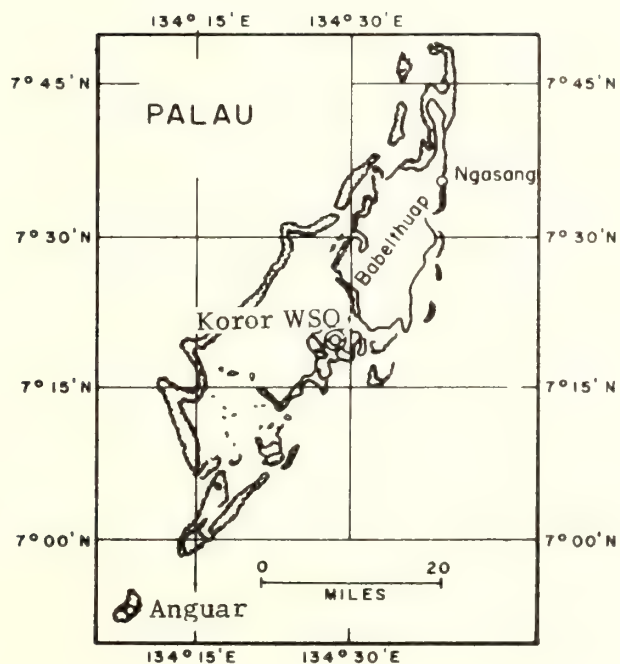
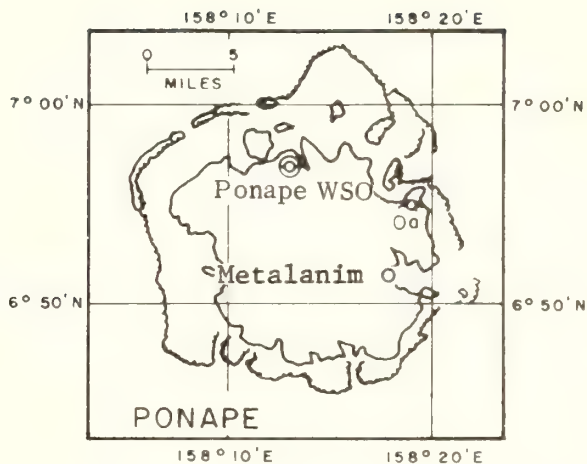
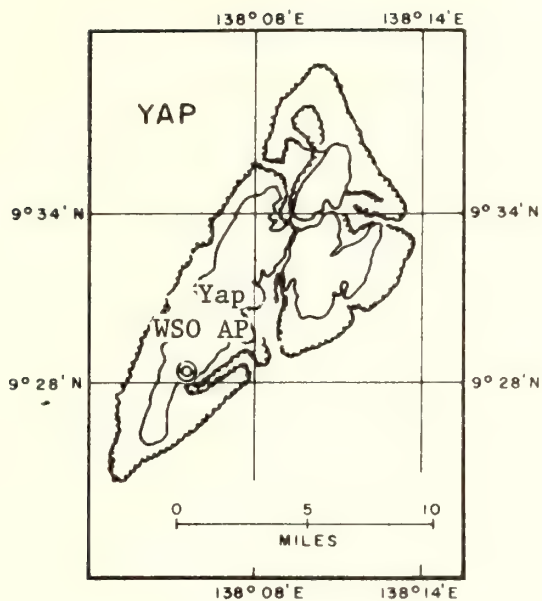




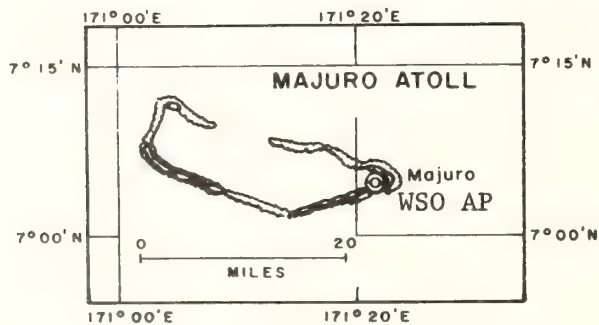
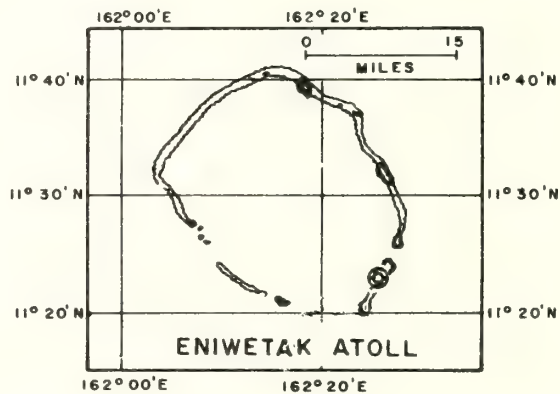
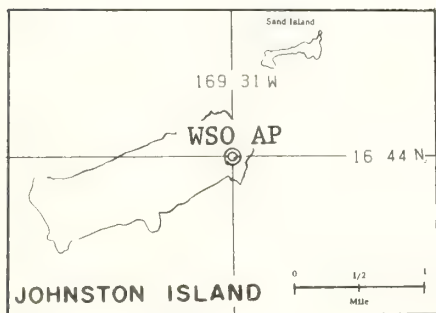
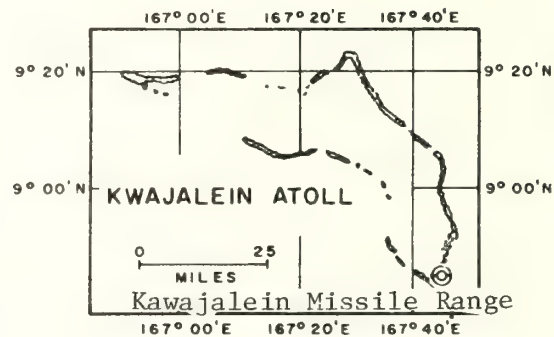
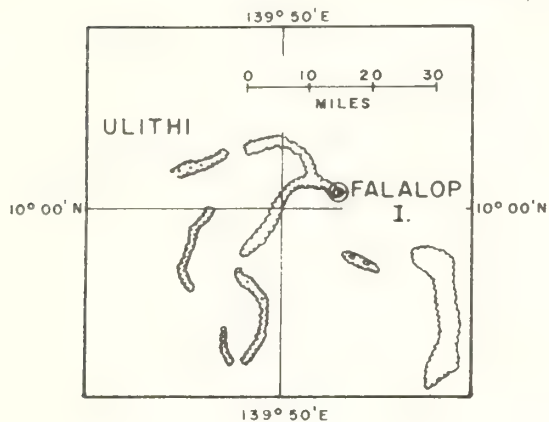
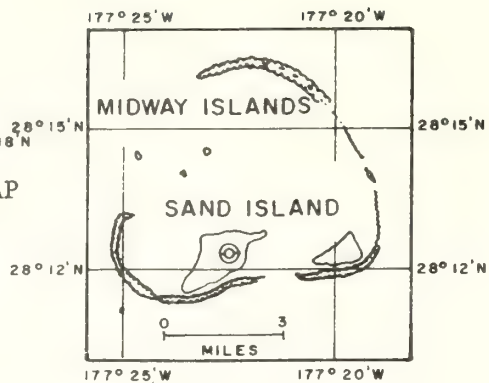
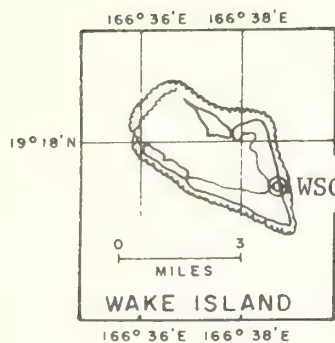


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— Reef



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Climatological Data

HAWAII AND PACIFIC



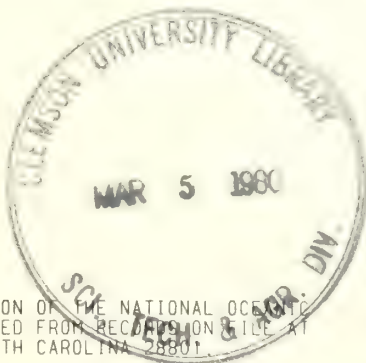
TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOA HEIAU 98.1	HAWAII	95	DATE	27
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	20	DATE	03
GREATEST TOTAL PRECIPITATION:	KUKUI 380	MAUI	24.00		
LEAST TOTAL PRECIPITATION:	CAMPBELL IND PK 702.5	OAHU	.13		
GREATEST 1 DAY PRECIPITATION:	PAHALA 21	HAWAII	3.85	DATE	10

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE TENTHS SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	01- 09	10 49	50- 99	1 00-1 99	2 00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-		-	41	E 10		-	82	83	94	0	6	12	2	3	4	27	16	9.2		
HILO WSO 87 AP	19	1.1	5.8	17	E 29+		88	79	73	86	2	6	15	2	0	0	25	44	7.0		
HONOLULU WSO 703 AP	7	6.6	10.2	26	NE 21+		77	71	56	71	13	3	1	0	0	0	17	63	6.3		
JOHNSTON WSO AP	9	11.5	14.0	42	SE 19		84	84	77	83	6	10	4	2	0	0	22	82	4.4		
KAHULUI WSO 398 AP	6	8.5	12.2	31	NE 19			75	59	74	2	8	1	0	0	0	11	70	5.5		
KOROR WSO	26	4.7	9.7	30	NW 02		87	-	78	78	2	8	7	3	3	1	24	27	9.2		
KWAJALEIN MISSILE RGN	8	8.9	9.9	29++	9 01		83	83	74	79	3	7	13	2	2	2	29	-	8.3		
LIHUE WSO 1020.1 AP	6	6.5	10.6	24	NE 21		86	87	68	80	4	9	13	0	0	0	26	67	5.7		
MAJURO WSO AP	8	5.5	7.3	27	E 04		82	82	75	78	4	3	7	6	2	2	24	68	8.7		
PAGO PAGO WSO AP	10	9.3	12.0	34	NE 28		82	83	75	81	3	10	4	5	3	1	26	39	8.1		
PONAPE WSO	-			13	N 14		93	-	74	79	2	3	12	4	5	1	27	26	8.9		
TRUK, MOEN I, WSO AP	34	1.0	8.4	41	NW 06		88	-	80	79	1	9	2	5	5	4	26	32	9.5		
WAKE ISLAND WSO AP	8	10.5	11.6	27	NE 19		85	88	73	78	7	10	6	0	0	1	24	70	5.5		
YAP WSO AP	26	3.3	9.6	56	SW 02		88	-	81	82	2	8	6	3	4	1	24	38	8.6		



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
OCTOBER 1979

STATION	TEMPERATURE											PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										24° OR ABOVE	32° OR BELOW	34° OR BELOW	36° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	5.0 OR MORE	1.00 OR MORE
HAWAII.																							
ISLAND OF KAUAI																							
ANAHUHA 1114	A				80	7				0	0	0	0	2.21					0			0	
KANALAHOU 1075		M	M	M			70	29		0	0	0	0	5.27					0				
KILAHEA POINT 1134										0	0	0	0	4.69		1.30	5		0		13	0	
KOLOA 936	A									0	0	0	0	3.75		.44	31		0				
LIHUE WSO AP 1020	R	84.2	72.8	78.5	1.2	89	7	67	25+	0	0	0	0		-.09				0				
MANA 1026														1.22		.55	29		0		3	1	
N. HAILUA DITCH 1051	A													12.84		2.01	17		0				
PH. WAINIHA 1115														7.55		1.46	31		0				
RIEHO RIDGE 1040														4.18	1.41	.98	9		0		6	5	
WAIHANA 930	A													3.01		.70	5		0		1	0	
WAIHAI LOOKER 1064		81.4	66.0	73.7		84	23+	59	25+	0	0	0	0	9.26		1.85	17		0		19	6	
WAIHAE 947		87.9	70.5	79.2		92	1	67	22	8	0	0	0	1.58		.26	8		0		5	0	
ISLAND				77.1										4.80					0				
ISLAND OF OAHU																							
ALOHA STADIUM-HALAWA		M	M	M		91	12			0	0	0	0						0				
B. Y. U. LAIE 903.1		84.0M	71.6M	77.8M		97	10+	66	25	0	0	0	0	5.17					0				
HONOLULU OBSERV 702.2		88.3M	71.1	79.7M		92	15+	66	27+	8	0	0	0	1.19		.12	3		0		1	0	
HONOLULU WSO AP 703	R	88.0	74.0	81.0	1	93	11	67	24	7	0	0	0	.53		-.98	.39	8		0	1	0	
KANEHOE MAUKA 781			M	M						0	0	0	0	5.06		-.78	.96	8		0	15	3	
KOOLAU DAM 833	A													6.64		.83	31+		0		17	4	
MANGA YON ARBORETUM		81.4	69.9	75.7		88	11	65	26	0	0	0	0	7.58		1.68	2		0		17	3	
NUUANU RES 4 783	A																		0				
OPAEULA 870		83.9M	69.0M	76.5M	4.2	90	26+	63	25	2	0	0	0						0				
PAALO VALLEY 718	R																		0				
PUU MANAWAHUA 725.6		81.4	67.5	74.5		85	17+	64	24+	0	0	0	0	1.03		.60	31		0		2	1	
WAIHOLE 837	A													6.50					0				
WAIKALEE 896.3		85.1M	72.5M	78.8M		89	11+	69	26	0	0	0	0	3.34		1.63	31		0		2	1	
WAIKALUA 847	A	86.9	68.5	77.7	2.4	92	12+	64	25	3	0	0	0	1.32		-.81	8		0		3	1	
WAIKIKI 717.2		88.8	70.7	79.8		91	12	67	23+	11	0	0	0	.76		.26	9		0		3	0	
WAIMANALO EXP FM 795.1		84.6	72.2	78.4		89	6	66	24	0	0	0	0	3.02		.78	8		0		8	1	
WAIPIAHU 750	A													.83					0		0	0	
ISLAND				78.0										3.23					0				
ISLAND OF MOLOKAI																							
MOLOKAI AP 524																							
ISLAND																							
ISLAND OF LANAI																							
LANAI CITY 672	A	77.8M	64.8M	71.3M	.4	83	11+	60	26	0	0	0	0	2.33		.15			0				
ISLAND				71.3										2.33					0				
ISLAND OF MAUI																							
HALEAKALA EXP FARM 434	A	65.7	47.1	56.4	1.4	71	25+	36	28	0	0	0	0	2.92		.98	16		0		5	2	
HOLEAKALA P S 338		84.5M	72.2	78.4M		91	10	66	24	1	0	0	0	.84		-.27	.21	16		0	3	0	
HANA AIRPORT 355														3.56		.40	22		0		12	0	
HONOKOHUA 493	A													3.32		.71	17		0				
KAAHAPALI AP 453.1		87.3	69.1	78.2		92	4	60	24	3	0	0	0	1.13		.68	8		0		2	1	
KAHULUI WSO 398 AP	R	88.4	72.5	80.5	3.2	92	11+	62	24	11	0	0	0	.44		-.64	.14	7		0	1	0	
KAILUA 446		79.7	68.6	74.2	1.6	85	10	64	15+	0	0	0	0	5.52		-4.55			0				
KEANAE 346	A													9.70					0				
KIPAHUO 258														3.88		-4.51	.36	24		0	18	0	
KULA HOSPITAL 267		M	M	M		81	9			0	0	0	0			1.90	2		0				
LAHAINA 361		89.2	69.5	79.4	2.4	92	14	63	24	15	0	0	0	1.08		.18			0		2	1	
PAIA 406														1.41		.78			0		4	0	
WAILUKU 386	A													1.29		-.57	.96	8		0	1	0	
ISLAND				74.5										2.92					0				
ISLAND OF HAWAII																							
HAWAII VOLCNS NP HQ 54		73.4	56.1	64.8	2.4	79	10	52	27	0	0	0	0	6.66		-.23	1.16	17		0	17	3	
HILO WSO AP 87	R	84.0	68.1	76.1	1.1	91	8	65	27	1	0	0	0	5.03		-5.93	.74	2		0	17	2	
HUEHUE 92.1	A													2.54		1.10	7		0		4	2	
KAINALIU 73.2		80.3	65.6	73.2		88	11	63	28+	0	0	0	0	5.97		.61	1.37	4		0	12	5	
KAPOHO BEACH 93.11			M	M				69	28+	0	0	0	0	8.10					0				
KEAU 92														13.55		2.06	3		0			1	
KONA KAILUA 68.2	A	86.8M	70.9M	78.9M		89	16+	68	24+	0	0	0	0	2.40		-3.18	.95	17		0	8	1	
KUKUIHAELE HIF 193		68.0	51.1	59.6		89	7	41	24+	0	0	0	0	7.88			2.00	17		0		2	
KULANI CAMP 79																			0				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
OCTOBER 1979

STATION	TEMPERATURE												PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.	MIN.	TOTAL	GREATEST DAY					DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
HAWAII																								
PAHALA 21																								
PUUKOHOLA HEIAU 98.1	89.6	72.0	80.8		95	27	61	18	18	0	0	0	0	8.59		3.85	10	.0	0					
SOUTH KONA 2.31							58	31	0	0	0	0	0	1.79		1.35	15	.0	0					
WAIKAE SCD 88.2														5.47		1.32	15	.0	0					
														9.06		1.36	15	.0	0					
ISLAND			72.2											5.77				.0						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
OCTOBER 1979

STATION		TEMPERATURE											PRECIPITATION											
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											80° OR HIGHER	32° OR BELOW	32° OR HIGHER	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
PACIFIC																								
EAST OF 180TH MERIDIAN																								
ATU'U																								
FALEASAO VILLAGE														12.07		2.74	27	.0	0		15	7	3	
JOHNSTON IS WSO AP		R	86.1	77.8	82.0	1.4	88	12+	73	31+	0	0	0	0	2.27	- 1.21	.57	19	.0	0		6	2	0
MIDWAY SAND ISLAND			84.4	74.6	79.5	3.9	89	3	69	25	0	0	0	0	5.10	1.34	1.78	18+	.0	0		16	11	6
MALAE'OA														17.15		4.49	28	.0	0					
PAGO PAGO WSO AP		R	85.5	76.4	81.0	1.6	88	19+	73	30+	0	0	0	0	11.73	- .37	2.40	28	.0	0		13	9	4
WESTERN PACIFIC IS., NORTH OF 12° N																								
AGAT														20.51		6.00	10	.0	0		20	10	6	
ANDERSEN AFB GUAM			84.8	78.2	81.5	1.5	87	31+	75	10+	0	0	0	0	28.99	14.96	8.92	10	.0	0		22	11	7
CLARK AFB LUZON			86.2	74.0	80.1	-.3	90	30+	72	26+	6	0	0	0	2.34	- 3.13	.74	1	.0	0		5	2	0
DEDEDO														32.25		9.56	10	.0	0		25	13	7	
GUAM NAS			88.3	76.5	82.4	1.6	91	25+	74	5	18	0	0	0	25.25	12.11	4.63	10	.0	0		21	10	7
GUAM WSMO		R	85.6	72.8	79.2	.3	89	22+	69	21+	0	0	0	0	26.05	11.65	5.89	10	.0	0		21	9	7
INARAJAN AG STN														27.06		4.37	5	.0	0		27	17	5	
INARAJAN - NASA			87.1	73.7	80.4		89	2+	69	29	0	0	0	0	23.41		4.62	5	.0	0		19	9	7
MANGILAO														14.25		2.49	5	.0	0		17	9	4	
SAIPAN LORAN																								
UMATAC														21.51		2.00	29+	.0	0		25	12	10	
WAKE ISLAND WSO AP		R	88.4	78.3	83.4	1.8	92	18	75	2	8	0	0	0	3.95	- 1.50	2.35	19	.0	0		7	1	1
YIGO														21.22		5.00	10	.0	0				6	
CAROLINE AND MARSHALL ISLANDS																								
ENEWETAK																								
FALALOP I ULITHI ATOLL														11.97	-.62	2.84	1	.0	0		14	7	4	
KAPINCAMARANGI ATOLL		P	87.8	76.1	82.0	.1	91	18	73	14+	5	0	0	0	11.97	-.62	2.84	1	.0	0		14	7	4
KOROR WSO		R	87.8	77.9	82.9	.5	89	31+	74	31+	0	0	0	0	12.52	.55	2.35	11+	.0	0		19	6	4
KWAJALEIN MISSILE RGN																								
LELE I KOSRAE														15.04	-.96	4.29	6	.0	0		17	10	4	
MAJURO WSO AP		R	87.5	76.6	82.1	.8	89	29+	72	18	0	0	0	0	15.11		3.27	3	.0	0		20	7	3
METALANIM			88.6	70.5	79.6		96	18	68	20+	10	0	0	0	12.35		2.55	2	.0	0			9	4
NGASANG-BABELTHUAP														17.57	1.15	3.41	28	.0	0		22	10	6	
PONAPE WSO		R	90.1	73.1	81.6	1.4	93	23+	70	31+	24	0	0	0										
SATAHAN ATOLL																								
TRUK MOEN I WSO AP		R	87.1	75.5	81.3	.2	90	22+	72	10	2	0	0	0	24.71	11.32	5.16	6	.0	0		16	14	9
WOLEAI ATOLL																								
YAP WSO AP		R	87.1	74.9	81.0	-.4	89	26+	72	26+	0	0	0	0	12.18	-.24	2.59	2	.0	0		14	8	5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1979SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
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DAILY PRECIPITATION

HAWAII AND PACIFIC
OCTOBER 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
PAALUNAU 217	1 02			02				01	01	01						02		48	11		07	03	04		04		06		03		07		
PAALUO 221	2 07			05				06								15		96	20			09	11		04	15	03		37	01	14	03	08
PAHALA 21	8 59		16	57		35			19	53	3 85	02	01			81		15							31	17							
PANDA 65	19 20	52	72	97		50	45		38	1 25	31	10				52		07	55	20	20			1 90	07	15	07	11		1 32	10		
PAPAIOU 144.1	10 24	08	12	80		12	55		31	07	25					01		05	70	46	72			85	01	08	13	02		4 70	23		
PAPAIOU MAUKA 140.1									2 77							1 80								3 31						1 85			
PITHONUA 89	10 40																																
PUNOHONO A HEIAU 98.1	1 79						22	01																									
PUNU LEHUA 73	1 25																																
PUNOHONO-O-HONAUNAU	3 18	66	01	15		02						2 04	24		02																		
SOUTH KONA 2 31	5 47	08	1 00	67			05		01	04	04																						
UPOLU POINT USCG 159 2	1 42											72			05	02	1 32		10	14	02												
WAIKAE SCD 88 2	9 06	01	18	1 36		21	59	09	01	20	30					03	04		05	1 10													
WAIKALO BOIS CAS 95 8	2 00	06	04		08	44				72									1 08	26													

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
OCTOBER 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST 12 180°W																																	
MERIDIAN																																	
ATU																																	
AKESAW VILLAGE		12.07	.09		35	77	17	34	.02	08		15	.04	2.06	.07	.29		.05	.01		.08	.19		.04	.07	.82	.34	1.37	2.74	.85	.11	.95	.32
ANDERSON IS. WSO AP	R	2.27		04	10									.02	.05	.02		.05	.21		.57	.01				.01		.43				.04	.53
MIDWAY SAND ISLAND		5.10	06							03	01																.78	.12					
MALAEIDA		17.15	05							.29																	.28	2.20	1.01	4.49	.83	2.14	.18
PAGO PAGO WSO AP	R	11.74	04	1	03	02		03	01	03	01	01	05								1.29	.29		.77	1.35	.35	.18	.78	.73	2.40	.71	1.86	.10
WESTERN PACIFIC IS.																																	
NORTH OF 12°N																																	
A-AT																																	
ANDERSEN AFB GUAM		20.51	10	33	30	60	2	00	05					6.00	2.84	30	1.60	1.60	49														
LARRY AFB - 122N		28.99	54	71	12	1.21	1.67	01		29	28	4.79	8.92	2.75	23	1.36	2.04																
DEDEO		2.44	74	22	51	18		01																									
GUAM NAS		32.25	47	50	72	19	4	15	50	.95	.50	.43	9.56	3.45	1.85	2.25	2.15	28															
GUAM WSO		25.25	70	49	36	2.19	2.75	01		.08	.17	4.20	4.63	2.16	.28	91	2.48																
INARAJAN AU STN	R	26.05	08	83	10	1.39	3.73			.11	.23	5.14	5.89	2.26	16	1.15	1.79																
INARAJAN - NASA		27.06	42	20	30	.84	4.37	03		.10	.85	.73	2.94	2.30	89	.62	2.91	92															
MANGUAD		21.41	01	43	21	1.24	4.62	09			.08	.78	3.97	2.53	47	.44	2.95	31															
SAIPAN LORAN		14.25	15	07	48	.68	2.49				.12	1.97	1.79	.99	.87	.52	2.05	03															
UMATAC																																	
WAKE ISLAND WSO AP	R	21.51		30	1.82	2.00	1.33	2.00		.10		1.78	2.00	1.50	2.00	10	1.20	38															
YUSO		3.95	09	25	10	30		02		.19		1	09			.07	09	11															
CAROLINE AND MARSHALL ISLANDS		21.22	33	60	25	70	3	78	02		.11	50	5	00		45	1	04	2	50	10												
ENWETAY																																	
FALALOP I. RITHE ATOLL																																	
KAPINGAHARANGI ATOLL																																	
KOROR WSO	R	11.97	2.84	.38																													
KWAJALEIN MISSILE RGN	R	12.52	2.35	.24	.27	1.92	12	.61		26	1.31	.77	1.47	.01	.18	46	1.79																
LELE I. KOSRAE																																	
MAJURO WSO AP	R	15.04	21	1	19	1.09	4	2.29		54																							
METALAN		15.11	34	08	3.27	1.98	46	14		76	.10	49	1	39	.21	04																	
NGASANG-BABE-THUAP		12.35	30	2.55	1	19	01			1.59	1	10		35	64	.87	.76	.77	.03														
PONAPE WSO	R	17.57	49	97	1.29	1.69	32	.40		.77	.93	31		21		02	1	21	.28														
SATAHAN ATOLL																																	
TRUK MOEN I. WSO AP	R	24.71	.89	.43	1.57	2.85	.51	5.16		1.31	.89	.96	1	08	.01	28	.07	2	10														
WOLEAI ATOLL																																	
YAP WSO AP	R	12.18	.32	2.59	.01	06	1	.89		.85	1	.09	.11	1.14	.01	.05	.03	12	1														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
OCTOBER
1979

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	75 54	73 54	73 56	73 57	72 58	76 53	80 60	68 57	72 58	75 57	72 55	75 56	75 57	75 58	74 57	75 55	72 56	72 59	72 60	72 59	72 58												
KILAUEA POINT 1133	MAX MIN																	86 73	83 75	83 77	83 73	83 75	85 74	85 72	82 73	82 71	85 71	84 75	83 74	82 70	85 73	84 72		
LIHUE WSO AP 1020.1	MAX MIN	86 73	85 73	86 77	85 78	85 69	87 69	89 75	86 78	87 74	86 72	85 71	86 75	86 69	85 75	84 74	84 77	81 76	82 79	83 77	83 74	83 76	83 69	83 68	83 67	84 67	84 73	83 71	82 70	82 68	84 73	77 71	84.2 72.8	
NIU RIDGE 1035	MAX MIN	88 65	83 67	87 67	92 67	90 72	89 68	86 72	89 70	89 70	88 70	88 69	89 68	88 68	88 67	89 67	87 64	88 65	84 66	94 70	87 67	89 65	91 64	89 64	87 66	87 63	85 65	86 65	82 68	86 64	84 65	84 65	87.4 66.9	
WAIHI LOWER 1054	MAX MIN	82 66	80 67	82 67	79 68	80 69	84 68	83 64	84 69	80 69	79 69	82 67	84 69	82 64	81 69	80 69	80 64	79 69	80 69	82 69	80 69	80 59	82 64	82 63	82 63	80 59	80 62	82 65	82 65	80 64	82 65	79 65	81.4 66.0	
WAIKANA 947	MAX MIN	92 68	90 70	89 72	90 71	90 71	88 71	90 71	89 71	87 74	87 72	86 73	89 71	87 71	88 73	88 71	90 68	91 68	88 72	89 72	88 68	88 72	88 68	91 67	87 70	86 71	87 68	86 68	89 69	85 74	82 69	85 69	86 70	87.9 70.5
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN		85 72	86 74	87 75	89 72				90 73	87 73	89 73	91 74			90 72	88 74	89 74	84 77	87 76														
B Y U LAIE 903.1	MAX MIN		81 75	84 74	84 74	83 72			87 70	87 71	87 70	85 71	85 72			83 73	83 75	83 70	84 74	84 74														
HONOLULU OBSERV 702.2	MAX MIN	90 72	87 72	90 72	89 75	89 72	87 72	87 72	89 73	88 75	87 72	92 71	92 70	89 70	88 69	92 73	90 70	90 75	85 75	90 75	89 70	89 69	89 66	87 66	87 66	88 66	88 66	88 66	85 67	86 70	86 72	89 69	89.3 71.1	
HONOLULU WSO AP 703	MAX MIN	83 74	87 73	90 73	90 77	86 73	87 75	87 76	87 76	87 77	87 74	93 75	91 72	90 73	89 77	89 75	89 77	88 77	88 76	88 77	88 76	88 71	88 68	88 67	88 66	88 67	88 66	88 75	88 72	88 72	86 73	86 73	88.0 74.0	
KANEHE MAUKA 781	MAX MIN	84 74	77 74	82 74	83 75	83 73	86 74	83 75	87 75	82 75	82 75	85 74																						
MANOA LYON ARBORETUM	MAX MIN	81 73	76 71	80 71	80 71	79 69	85 70	83 71	85 72	82 72	88 69	83 68	84 72	85 71	80 71	79 71	83 72	77 73	77 73	81 72	77 71	77 71	80 66	83 66	81 66	78 65	79 65	83 66	83 66	85 66	80 68	83 67	81.4 69.9	
OPAEULA 870	MAX MIN	85 69	85 69	85 70	85 71	85 69		85 70	85 69	88 68	85 68	85 69				90 72	80 69	82 71	80 69	79 71														
PUU MANAWAHUA 725.6	MAX MIN	83 69	81 67	82 68	82 68	83 67	81 69	83 69	80 70	77 70	81 67	82 68	85 68	83 68	83 68	85 68	85 69	77 69	82 68	80 68	81 68													
WAIKALE 896.3	MAX MIN	86 72	86 72	86 72	84 74			89 74	87 72	89 74	88 72	88 73				85 73	86 75	86 75	85 77	86 74														
WAIKALE 847	MAX MIN	86 66	87 66	86 69	87 69	89 70	84 70	88 68	88 72	91 72	92 70	87 69	92 69	88 66	88 68	88 68	87 68	89 70	84 72	87 73	84 72	88 68	88 68	85 66	83 66	84 66	86 66	86 66	88 66	86 69	88 67	87 68	86.9 68.5	
WAIKIKI 717.2	MAX MIN	89 75	84 71	88 72	90 73	89 72	89 70	89 74	89 74	89 74	89 70	89 68	91 71	90 68	90 71	90 72	90 71	85 67	85 67	87 73	87 68	89 75	89 68	89 67	89 70	89 69	89 71	89 69	89 70	89 71	89 71	89.8 70.7		
WAIMANALO EXP FM 795.1	MAX MIN	85 75	80 74	86 75	85 74	86 73	89 72	87 73	86 73	85 75	87 70	87 71	86 72	85 73	86 72	85 72	85 73	82 74	82 75	84 74	83 74	83 72	83 72	85 69	85 66	83 71	84 70	85 73	86 68	83 68	81 72	84 73	84.6 72.2	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	79 68	80 68	84 70	84 68	82 67	85 70	83 67	83 70	84 71	85 67	86 68	85 65	81 67	81 67	84 68	82 67	84 69	81 66	84 66	80 69	83 68	82 62	79 63	91 66	80 60	79 62	81 64	81 65	80 68	84 68	82.3 66.9		
LANAI CITY 672	MAX MIN	78 65	78 64	78 65	82 67	80 65		80 65	80 68	83 66	83 67	78 64				78 66	76 66	79 67	82 65	81 67		74 66	72 62	74 64	77 65	77 62	74 60		75 62	76 66	72 61	77.8 64.8		
ISLAND OF MAUI																																		
HOLEAKALA R S 338	MAX MIN	68 50	65 50	68 53	67 47	67 45	63 48	60 48	64 50	66 48	64 49	64 49	69 50	64 45	68 48	67 48	65 51	70 52	69 57	71 54	64 44	69 53	67 42	65 42	65 44	71 44	67 42	61 40	62 36	63 39	61 46	63 45	65.7 47.1	
HANA AIRPORT 355	MAX MIN	82 72	87 72	85 74	85 79	86 74	84 72	86 70	85 72	87 70	91 74	87 75	87 73	85 70	85 70	85 72	82 70	87 73	82 72	80 73	78 72													
KAANAPALI AP 453.1	MAX MIN	86 70	86 70	91 74	92 71	89 69	87 72	87 68	89 72	89 73	88 71	90 68	89 68	88 70	90 70	85 73	89 70	85 74	85 70	89 70	85 71	86 72	89 68	85 65	85 63	87 63	87 65	87 66	86 66	86 69	86 70	87.3 69.1		
KAHULUI WSO 398 AP	MAX MIN	90 75	90 74	92 75	91 74	89 71	88 75	91 73	92 79	91 76	89 75	92 78	88 77	87 70	88 72	88 77	90 71	86 70	91 78	86 77	87 70	88 76	88 72	86 68	86 65	88 66	88 69	88 70	88 69	85 74	85 74	89.4 72.5		
KAILUA 446	MAX MIN	80 65	79 60	80 68	79 68	80 70	79 72	81 69	82 69	83 72	85 71	84 74	82 73	81 67	81 64	81 64	78 68	78 72	77 76	80 70	76 68	77 68	79 65	80 65	79 65	79 67	78 67	78 66	77 60	79 68	80 68	79.7 68.6		
KEAWAKAPU BEACH 260.2	MAX MIN	84 73	89 69	89 73	93 70	92 70	88 74	89 72	89 75	89 71	88 73	89 71	89 67	88 68	88 69		89 70	87 68	87 68	89 66	89 66	89 66	88 67	88 64	89 63	85 64	87 64	87 66	87 66	87 66	86 66	88.5 68.6		
KULA BRANCH STN 324.5	MAX MIN	76 61	76 60	78 61	78 59	76 59	74 63	72 61	78 61	78 61	75 61	75 62	78 59	77 59	77 58	79 58	76 59	77 58	77 59	76 61	76 60	76 59	78 57	73 56	74 55	76 54	74 54	73 57	73 56	74 60	75 58	75 58	75.8 59.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
OCTOBER 1979

STATION	DAY OF MONTH																															AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
LAHAINA 36.1	MAX MIN	70 61	75 60	75 60	77 60	75 61	76 58	76 62	81 61	79 62	76 62	75 60	75 59	74 59	75 60	74 59	75 60	72 59	76 59	75 59	75 59											89.2 69.5
ISLAND OF HAWAII																																
HAWAII VOLCANO NP HJ 84	MAX MIN	71 55	77 55	75 57	69 55	74 63	65 57	72 61	74 60	77 62	79 60	77 55	74 58	76 57	76 54	77 56	77 55	70 55	72 58	72 55	74 56	75 53	72 58	71 56	74 53	71 53	73 52	74 53	67 54	70 54	74 55	73.4 56.1
HILO WSO AP 87	MAX MIN	81 68	83 68	83 70	84 67	78 71	87 69	89 69	91 70	89 70	86 71	87 67	86 67	84 66	85 68	87 66	80 72	84 69	83 70	83 68	84 68	82 66	82 66	83 67	82 66	83 65	84 65	84 68	83 69	80 68	82 66	84.0 68.1
KAINALIU 71.1	MAX MIN	78 67	81 65	82 65	82 67	80 67	78 66	81 67	83 66	82 66	88 69	80 69	81 67	80 63	81 64	83 66	81 66	82 66	82 67	81 66	81 65	81 65	81 64	81 63	78 63	79 65	78 63	81 63	79 63	78 64	82 67	80.8 65.6
KAMUELA 142.1	MAX MIN	80 58	80 60	76 61	76 63	75 61	80 60	80 58	79 60	80 63	83 61	77 60	81 61	81 57	81 64	77 64	77 66	70 66	76 65	76 64	76 65	72 56	81 54	81 56	75 60	75 61	75 60	79 53	79 54	80 64	73 64	77.7 60.8
KAPOHO BEACH 93.11	MAX MIN	84 71	85 70	84 71														86 70	89 70	87 72	83 71	84 69	84 69	86 70	86 70	86 71	87 69	89 69	89 71	84 70	79 70	
KONA (KAILUA) 68.3	MAX MIN	89 72			88 71		88 71	86 72	86 72	88 72	88 71	89 71	86 72	88 74	89 72	89 71	88 74	88 72	86 68	86 68	86 69	86 69	85 69	86 70	86 68	86 69	84 72	84 72	86 70	86 70	85 70	86.8 70.9
K LANI CAMP 79	MAX MIN	67 51	68 51	68 55	69 51	69 53	63 54	89 56	64 41	74 51	76 52	69 59	67 43	63 52	63 52	68 48	69 57	68 50	66 50	67 55	69 52	68 45	66 46	72 46	65 47	62 55	64 46	63 58	64 57	63 51	63 51	68.0 51.1
MA NA KEA OBS 111.2	MAX MIN	42 30	47 29	46 26	48 23	48 22	51 23	52 27	48 27	43 25	44 32	51 33	47 24	46 30	51 30	46 27	38 24	48 31	52 30	52 29	51 26	51 23	47 23	48 22	50 34	49 35	50 23	51 22	49 21			47.7 26.7
MALNA LOA SLOPE OBS	MAX MIN	52 38	52 37	55 39	53 39	48 39	51 41	57 41	55 40	50 39	51 39	53 39	53 37	51 36	52 38		53 39	58 40	59 40	57 41	57 41	55 37	55 36	56 36	57 39	54 37	55 36	54 37	51 36	45 38	50 38	53.3 38.4
MOUNTAIN VIEW 91	MAX MIN	80 64	76 63	80 64	78 64	79 64	71 65	84 66	86 65	87 66	83 66	82 64	81 62	83 64	82 62	85 61	75 62	80 66				79 61	81 63	80 63	81 62	78 63	80 62	78 60	80 65	78 62	71 62	80.2 63.2
NAALEHU 14	MAX MIN	82 69	83 69	84 66	81 69	82 69	72 68	80 70	84 68	86 69	83 69	80 70	81 69	80 66	78 64	82 65	81 68	79 69	80 70	78 70	77 68	81 66	81 66	78 67	79 67	78 66	77 66	76 67	80 67	80 67	75 67	80.0 67.8
OOKALA 223	MAX MIN	82 69	81 71	82 72	84 70	84 70	79 69	82 76	84 70	83 71	84 70	83 72	84 71	83 70	82 71	84 71	83 73	82 72	79 70	78 70		82 69	79 68	82 68	82 69	81 70	82 68	81 67	82 70	78 69	78 69	81.8 70.1
OFIHIHAE 2 24.1	MAX MIN	81 63	82 62	84 65	80 63	77 63	83 63	83 63	81 64	81 63	82 65	80 63	82 61	83 61	80 60	84 62	84 65	82 62	83 60	82 60	82 60	83 62	79 61	80 65	82 59	80 63	81 59	80 59	82 63	76 62	80 60	81.3 62.1
PUUKOHOLA HEIAU 98.1	MAX MIN	89 73	90 74	91 73	91 74	90 71	84 72	89 72	90 71	87 72	88 74	90 74	90 76	89 73	89 71	92 71	90 72	90 72	88 61	92 61	92 61	92 70	89 69	91 68	92 70	92 70	95 72	87 69	87 69	87 72	83 69	89.6 72.0
SOUTH KONA 2.31	MAX MIN																															
UPOLU POINT USCG 159.2	MAX MIN	84 72	89 66	88 73	88 64	88 70	87 69	90 74	86 77	88 74	88 75	90 75	89 72	88 73	88 72	87 72	86 73	85 72	90 60	86 74	86 72	86 65	87 72	87 72	84							85.8 70.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
OCTOBER 1979

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	88 80	87 78	87 76	87 77	87 77	87 76	87 78	86 78	86 79	85 79	87 80	88 78	87 78	86 78	87 79	87 78	87 77	84 73	86 80	86 79	86 79	86 80	86 80	86 79	86 77	86 77	84 74	84 77	86 78	85 78	84 73	86.1 77.8
MIDWAY SAND ISLAND	MAX MIN	84 75	84 73	89 72	86 71	83 73	82 72	82 76	85 75	86 75	86 75	87 76	88 78	87 75	86 77	86 77	86 79	87 73	81 72	81 73	85 79	86 79	86 77	85 77	85 74	84 69	80 72	82 73	81 73	82 74	82 74	83 76	84.4 74.6
PAGO PAGO WSO AP	MAX MIN	86 75	87 80	87 79	87 76	86 77	85 74	86 77	86 79	86 78	84 78	85 78	84 75	83 78	86 78	86 78	86 79	88 78	86 75	86 75	84 74	85 76	86 76	87 76	86 74	85 75	86 78	85 73	81 75	82 73	84 74	85.3 76.4	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	85 78	81 77	85 78	82 76	83 75	86 78	87 80	87 79	85 78	80 75	83 78	86 78	84 79	81 77	85 77	85 80	87 80	87 81	86 80	85 79	85 78	86 79	85 78	86 80	85 77	87 77	87 79	82 76	86 79	86 78	87 79	84.8 78.2
CLARK AFB LUZON	MAX MIN	82 73	84 73	84 75	84 77	84 75	84 75	82 75	84 75	86 75	82 75	86 75	88 72	88 73	84 75	88 72	88 75	88 75	88 72	84 75	86 75	90 75	86 73	86 72	88 73	84 74	90 72	90 73	91 75	90 75	90 75	86 75	86.2 74.0
GUAM NAS	MAX MIN	91 77	84 77	91 77	85 76	82 74	90 77	91 78	91 77	87 76	83 75	87 75	87 76	89 76	80 75	89 76	90 77	90 77	91 77	90 78	90 76	90 76	91 77	91 77	90 79	91 76	90 76	90 77	87 76	86 76	89 77	90 77	88.3 76.5
GUAM WSMO	MAX MIN	87 75	82 75	88 74	82 74	84 73	86 72	88 74	87 74	84 69	81 69	85 73	86 75	86 72	83 73	86 73	86 72	87 74	86 75	89 71	86 69	86 70	89 75	86 73	86 73	87 73	87 73	87 73	86 73	85 74	86 73	86 73	85.6 72.8
INARAJAN - NASA	MAX MIN	89 73	89 79	87 72	87 71	87 70	85 70	87 71	88 75	88 74	85 75	86 74	86 75	87 75	86 74	87 76	88 75	88 75	88 75	88 78	87 75	88 74	88 74	88 74	88 74	88 74	88 74	88 70	84 69	86 72	86 75	87.1 73.7	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	90 80	89 75	89 79	89 77	89 80	89 80	89 79	89 80	89 80	89 79	89 80	90 79	90 78	90 79	90 80	90 79	90 78	90 78	88 76	88 76	88 76	88 76	88 76	88 76	88 76	87 76	87 76	87 78	87 79	86 78	87 77	88.4 78.3
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	82 73	84 73	88 80	88 80	87 80	86 78	88 75	88 73	87 75	86 73	88 78	88 78	87 75	84 73	87 78	88 78	88 77	91 77	90 76	88 76	88 77	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	87.8 76.1
KWAJALEIN MISSILE RGN	MAX MIN	88 74	87 76	88 78	83 76	89 78	89 75	89 78	88 79	88 80	88 78	88 75	88 74	88 76	88 79	88 80	88 81	88 81	88 80	88 81	87 80	87 79	88 80	88 79	88 77	88 80	88 81	88 77	88 74	88 76	88 74	87.8 77.9	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	86 75	87 74	87 76	84 74	87 75	86 74	89 75	88 76	88 81	88 78	87 76	87 77	88 78	88 79	88 79	88 75	88 72	87 77	88 79	87 75	87 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	87.5 76.6	
METALANIM	MAX MIN	89 70	88 72	91 70	85 71	89 71	88 71	88 69	85 72	85 71	88 69	88 75	87 71	88 72	90 73	86 69	89 68	90 69	90 70	89 68	89 69	89 69	87 69	86 71	86 71	86 71	86 71	86 71	86 71	86 71	86 71	88.6 70.5	
PONAPE WSO	MAX MIN	90 73	90 75	81 75	85 73	91 71	91 74	87 74	87 72	92 70	91 76	92 75	91 74	89 76	88 75	91 75	92 71	92 72	92 73	92 74	91 73	91 71	91 71	84 73	90 73	91 73	91 73	90 75	90 73	91 70	91 70	90.1 73.1	
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	88 77	88 74	83 75	82 74	85 76	81 74	85 74	83 75	86 74	88 72	86 75	88 79	89 78	90 76	88 74	88 75	88 77	88 78	88 75	88 75	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	87.1 75.5
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 76	86 73	86 79	86 73	88 80	85 72	84 74	87 73	86 75	83 74	86 80	87 76	88 77	86 72	88 76	88 75	88 73	88 75	89 75	89 74	89 74	87 76	88 76	88 75	88 75	88 75	88 75	88 75	88 75	88 75	87.1 74.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
OCTOBER 1979

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
TIME WSO AP 1020 1		EVAP	.30	.62	.36	.42	.20	.26	-	-	.24	.32	.24	.30	.20	.26	.31	.32	.23	.28	.29	.30	.28	.23	.25	.35	.24	.29	.22	.15	.20	.31	8.528	
		WIND	134	283	246	192	78	95	135	134	81	90	99	89	97	172	158	219	252	271	265	255	178	88	99	118	163	142	79	58	120	205	4595	
		MAX	88	88	88	88	89	86	85	87	92	86	88	88	87	86	86	85	84	77	78	81	83	83	84	82	81	84	85	86	85	85	85	85.2
		MIN	68	68	68	68	66	78	62	68	68	68	67	67	65	65	67	66	66	66	67	67	68	65	64	64	63	67	66	65	63	66	65	66.4
ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2		EVAP	.60	.45	.42	.57	.60	.50	.60	.50	.45	.45	.60	.60	.50	.60	.50	.57	.60	.60	.56	.60	.50	.49	.45	.60	.48	.60	.45	.39	.45	16.33		
		WIND	17	10	12	27	21	16	19	37	30	15	16	18	26	21	17	15	25	28	36	37	29	23	20	16	15	16	19	29	18	11	16	655
		MAX	92	94	90	95	92	95	95	98	98	95	97	98	95	94	96	93	94	82	89	86	92	92	93	93	86	89	92	91	91	86	90	92.4
		MIN	72	72	72	71	71	72	74	74	75	74	73	72	71	72	72	70	71	71	71	71	70	70	69	69	67	67	68	68	68	70	69	70.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
OCTOBER 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.31	.26	.27	.31	.29	.14	.41	.36	.18	.20	.33	.40	.31	.18	.38	.34	.36	.26	.48	.25	.46	.29	.25	.43	.23	.41	.09	.19	.26	.17	.44	9.24	
	WIND	156	166	157	154	145	94	68	137	118	48	130	186	193	152	166	196	212	251	278	209	188	193	203	181	133	206	178	105	120	122	256	5101	
PAGO PAGO WSO AP	EVAP	.24	.29	.21	.55	.23	.23	.25	.33	.15	.31	-	.24	.65	.62	-	-	.37	.31	.31	-	.29	.16	.30	-	-	-	-	.18	-	-	3926		
	WIND	78	144	151	153	118	155	109	229	181	105	77	140	186	194	369	161	126	110	77	67	61	75	41	23	46	231	242	187	51	39	3926		
	MAX	90	92	96	98	96	95	92	95	94	97	98	97	95	91	93	94	90	94	87	87	90	92	92	92	86	85	86	92	92	94	92.4		
	MIN	72	75	75	74	75	75	73	74	74	72	73	73	71	71	71	72	72	72	72	70	71	71	72	72	71	71	70	70	72	72	72	72.3	
WESTERN PACIFIC ISL, NORTH OF 12 N																																		
GUAM WSMO	EVAP	.22	.14	.06	.03	-	.13	.15	.27	.20	-	-	.09	.17	-	.20	.21	.14	.24	.09	.21	.15	.25	.18	.15	.20	.24	.17	.18	.09	.18	15	5.168	
	WIND	52	61	107	54	56	38	45	70	296	150	115	144	102	110	33	43	25	48	63	27	21	19	26	46	67	97	89	92	99	96	119	2410	
	MAX	90	85	90	85	82	88	91	90	82	82	80	85	83	87	90	93	88	93	87	89	89	94	93	89	91	89	88	87	84	83	85	86	
	MIN	74	73	73	73	71	71	72	73	72	72	71	73	73	71	71	71	72	72	72	71	70	74	72	73	72	72	71	71	72	71	72	70	71.9
CAROLINE AND MARSHALL ISLANDS																																		
YAP WSO AP	EVAP	.171	.092	.03	.21	.15	.44	.08	.07	.18	.25	.16	.20	.23	.15	.15	.22	.23	.17	.17	.15	.20	.21	.19	.30	.22	.17	.17	.09	.16	.24	15	8.60	
	WIND	81	138	231	179	159	131	124	80	76	123	202	202	179	183	79	86	48	37	58	64	46	45	39	77	37	40	65	65	27	23	29	2953	
	MAX	96	89	85	84	88	83	78	95	85	81	86	90	93	85	94	97	98	92	91	94	93	96	96	97	96	96	95	95	95	96	97	91.5	
	MIN	76	76	73	75	76	74	72	72	73	75	75	76	76	75	74	74	77	76	76	75	76	75	76	76	75	75	74	76	75	75	74	75.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAHO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALET TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPU 945	2161	03	WAI MEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
LIILILIULA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALET		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULU 1075	3099	03	WAI MEA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAI MEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALET		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALET		22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAI MEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	C J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAI MEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAI MEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAI MEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAI MEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAI MEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALET		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALET		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAI MEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943	9253	03	WAI MEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAI MEA 947	9629	03	WAI MEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLOS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C J	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULO		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULO		21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION

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ISLAND OF OAHU												
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240				C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	EXP SIN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAUELA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	PEARL COUNTRY CLUB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUEKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAULO		21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330				C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	KALUA KOI GOLF COURSE
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C	DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA		20 49	156 53	3370		WI			CLOSED 9/30/79
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	A 0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		6A			HALEAKALA RANCH CO
HOLEAKALA R S 338	A 1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALLIMALE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	A 1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	A 1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	A 2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	A 2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	A 2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	A 3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	A 3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	A 4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	A 4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	A 4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	A 5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	A 5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	A 5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	A 6645	04	LAHAINA		21 02	156 36	340	VAR				MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127	VAR				E MAUI IRR CO LTD
OLOWALU 296.1	A 7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260	VAR			C	E MAUI IRR CO LTD
PAIA 406	A 7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	A 7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	A 8070	02	MAKAWAO		20 41	156 20	6150	VAR				STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	A 8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	A 8688	03	WAILUKU		20 54	156 25	85	8A				HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	A 8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEHU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	A 0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			* L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600					PEX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEATWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1325		MO			STATE DIV OF FORESTRY
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30	7A				FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMULO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAW 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	5761	02	HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAW 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUULO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU27.4 PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKALOA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			
CLOSED STATIONS												
ISLAND OF LANAI												
LANAIHALE 684	A 5301	01	LAHAINA		20 49	156 53	3370		WI			CLOSED 9/30/79

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

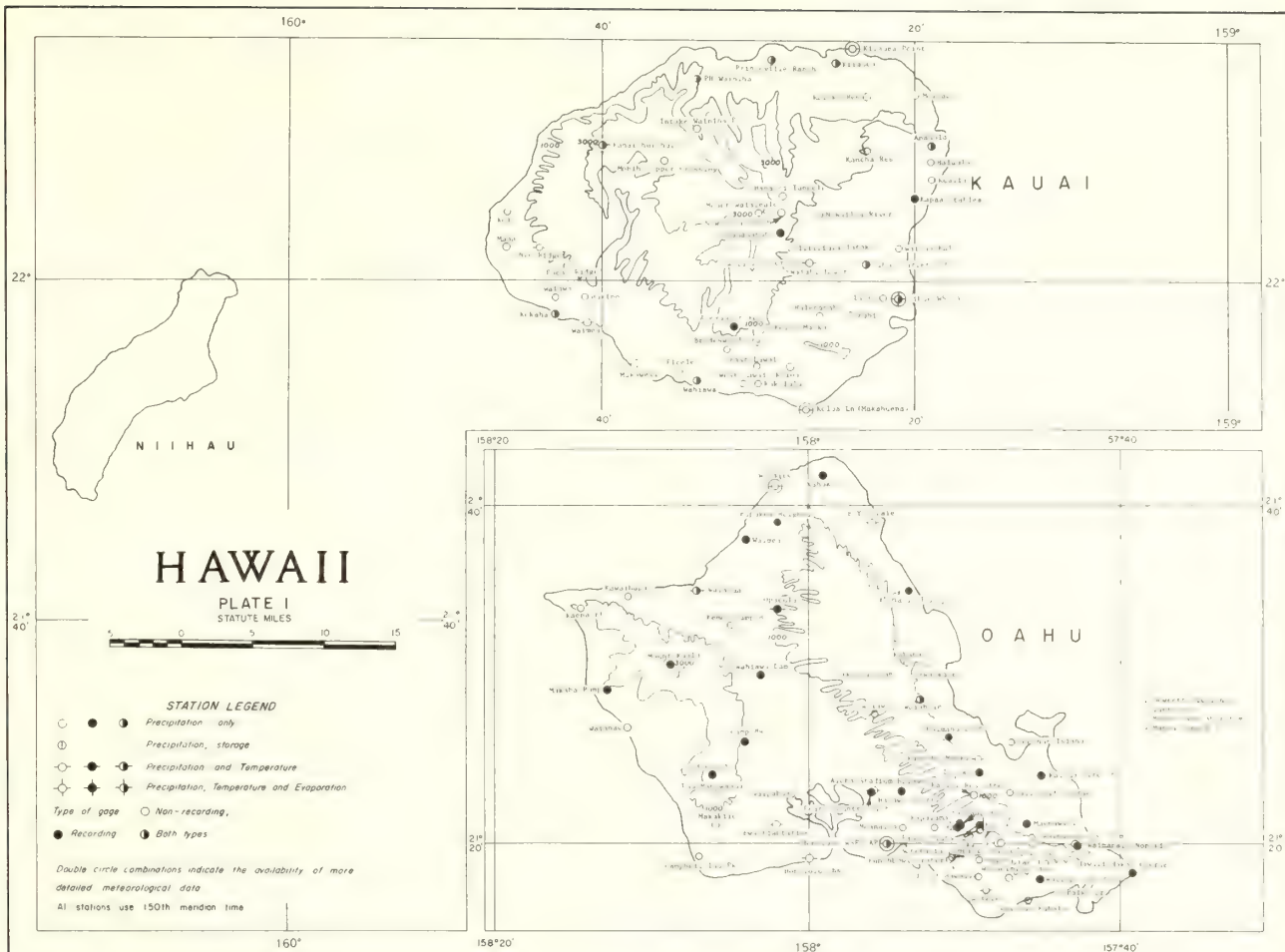
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

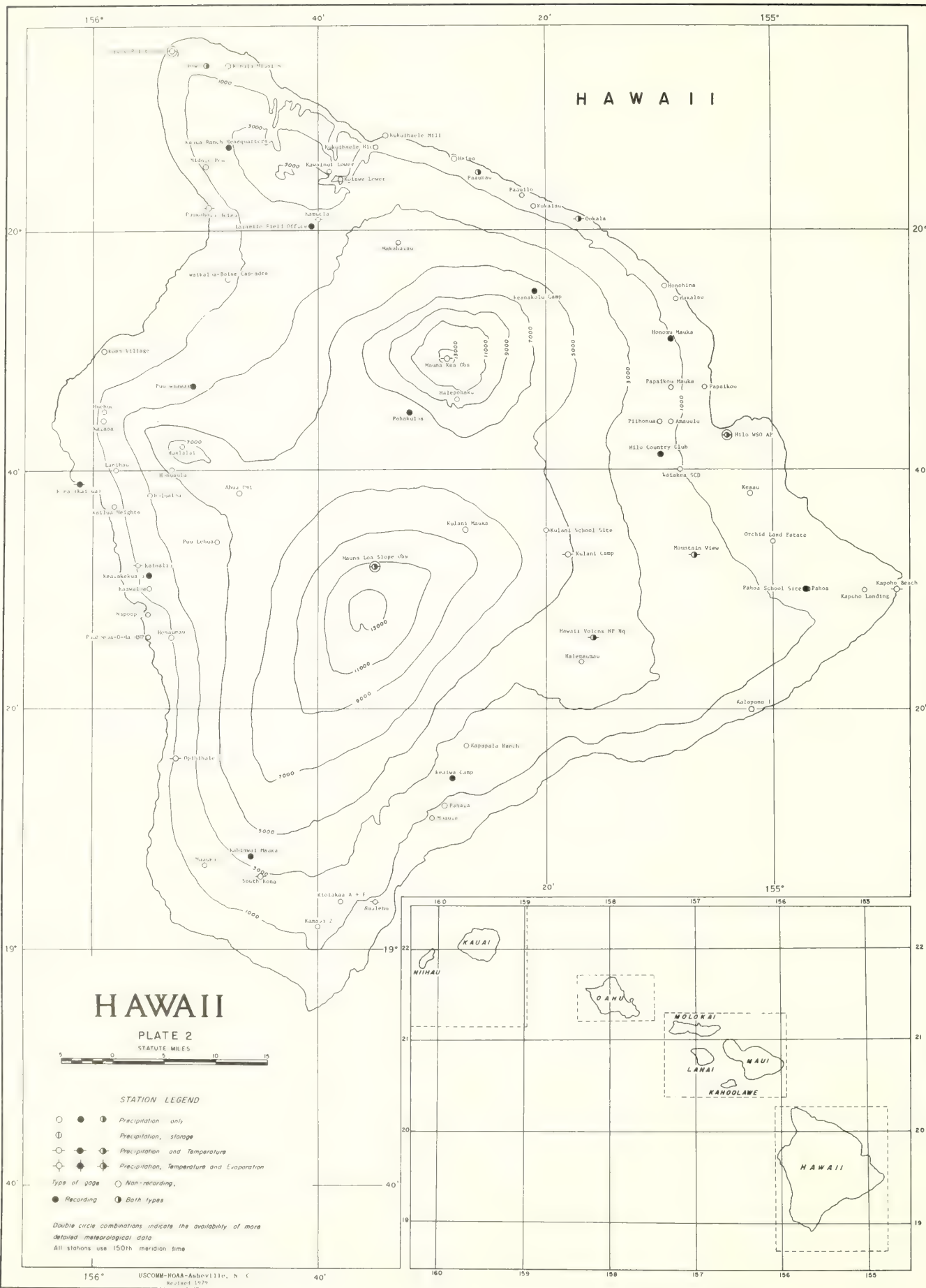
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

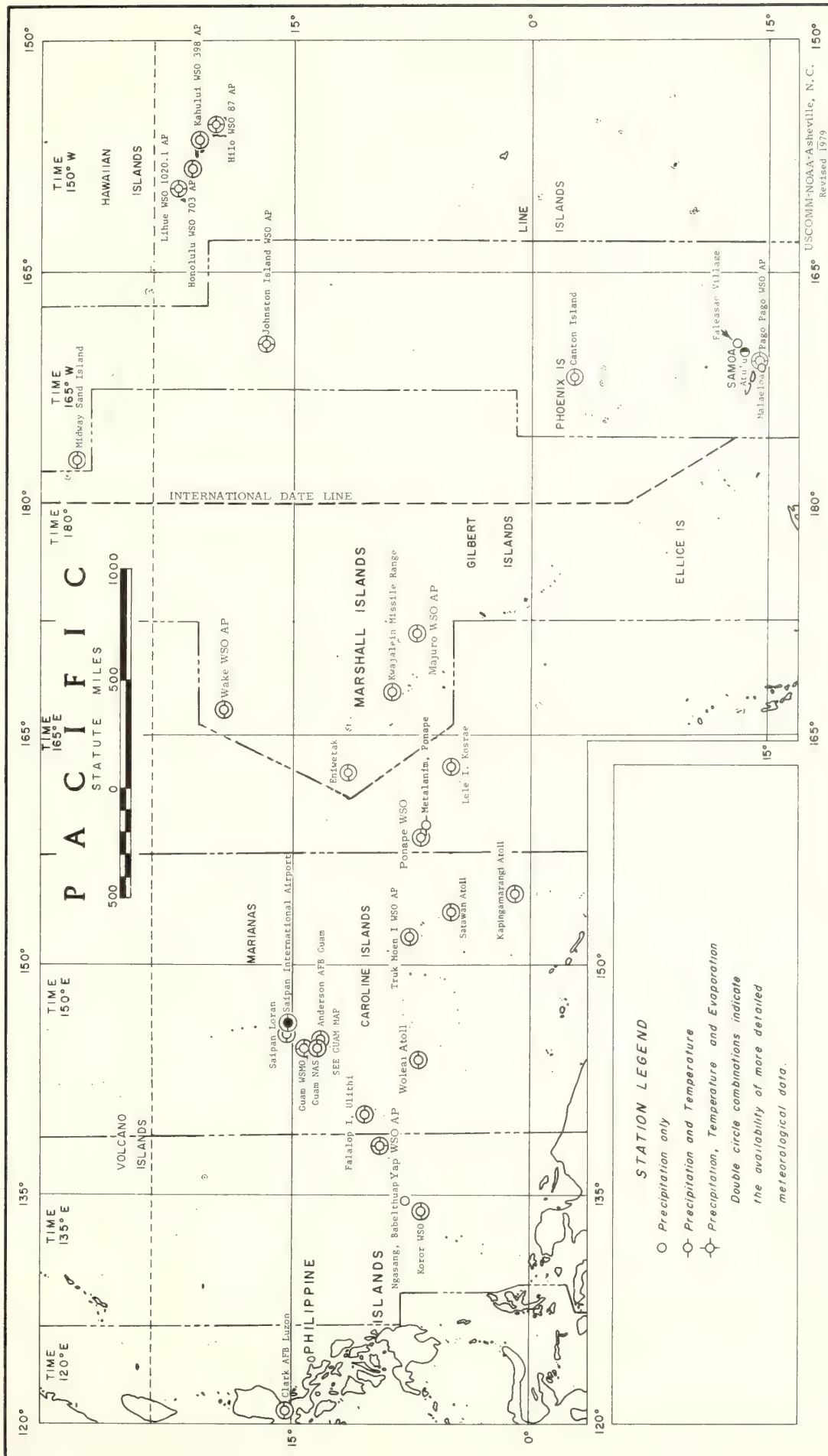
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

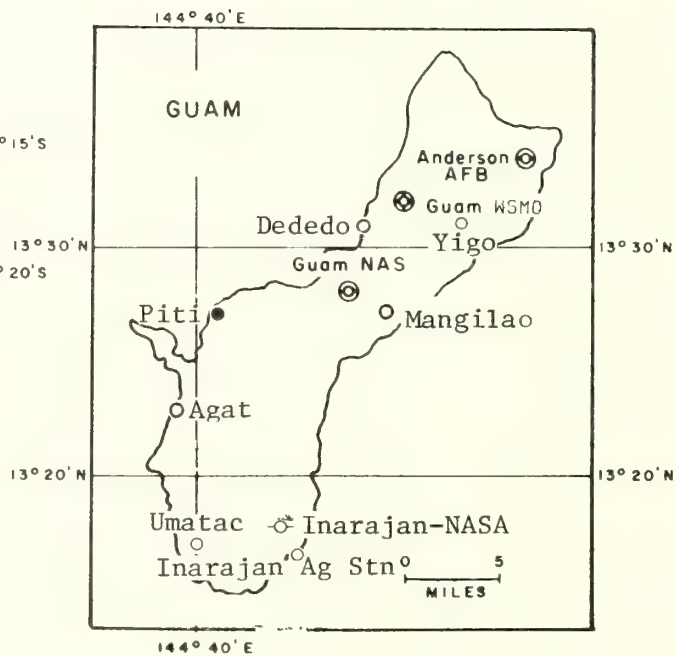
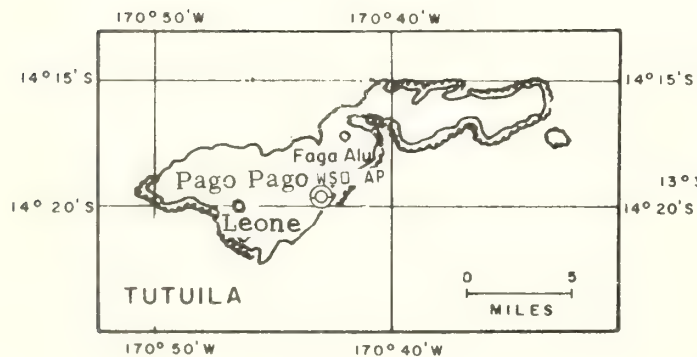
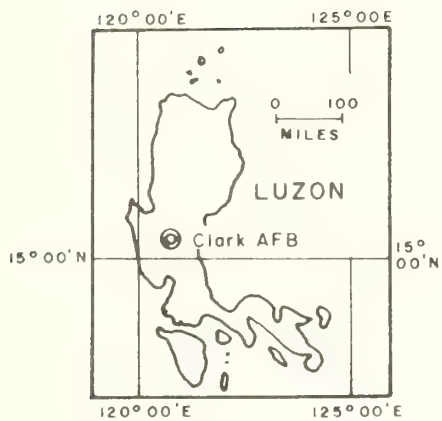
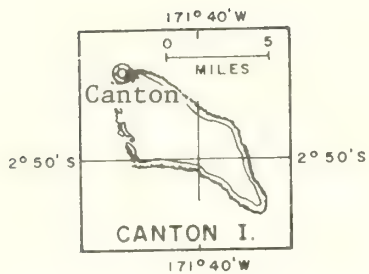
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

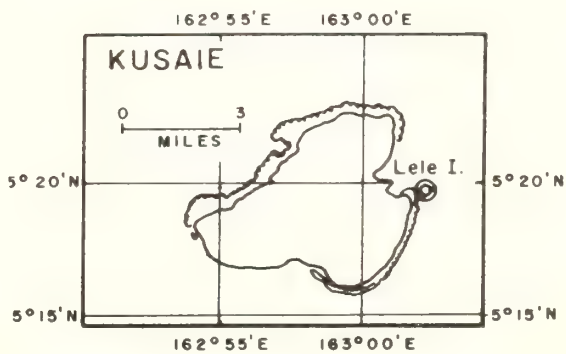
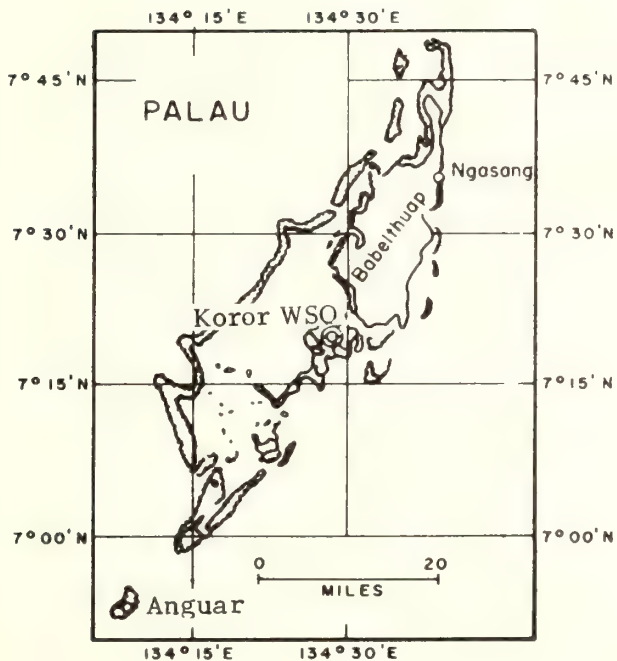
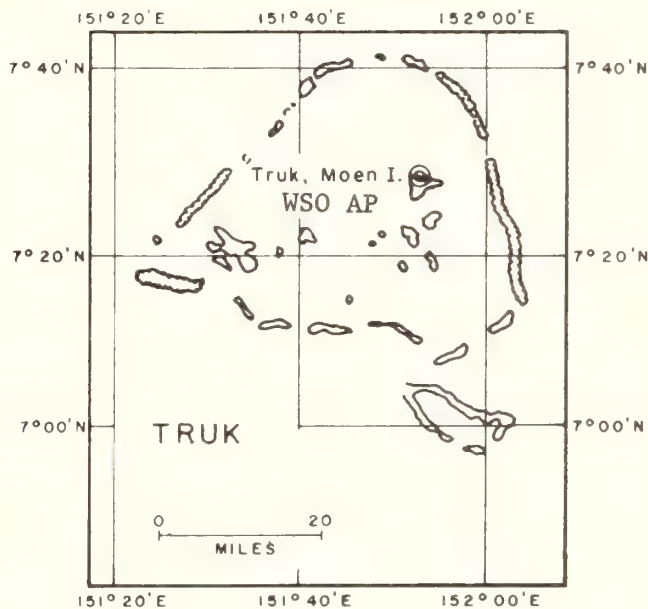
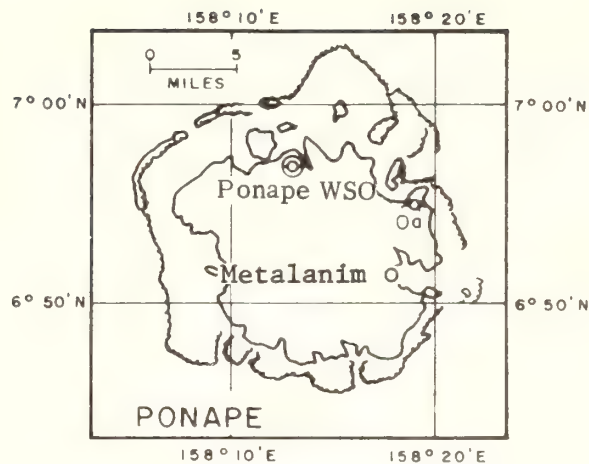
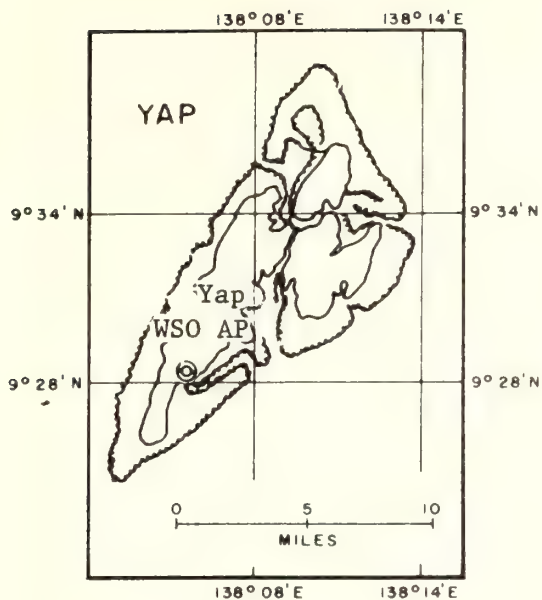
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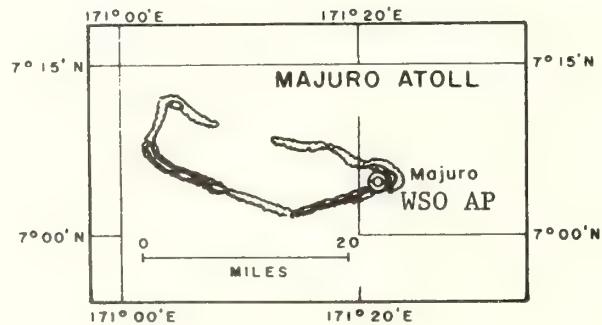
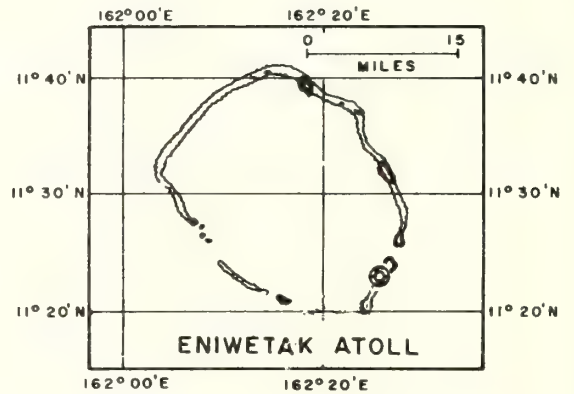
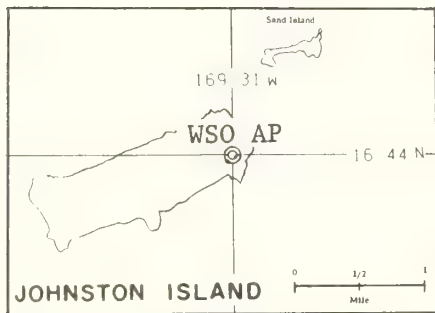
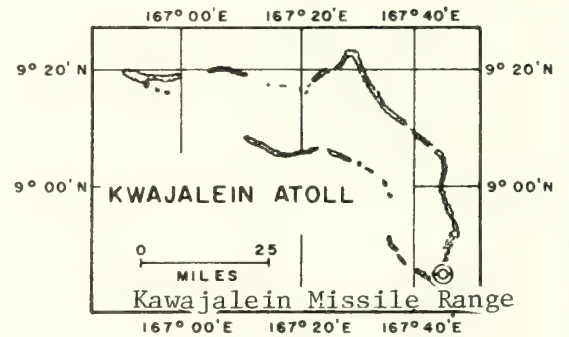
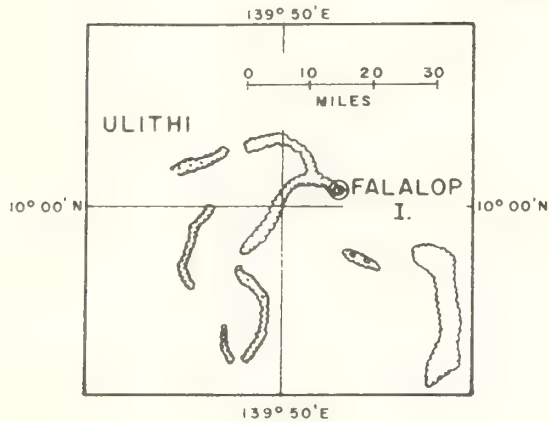
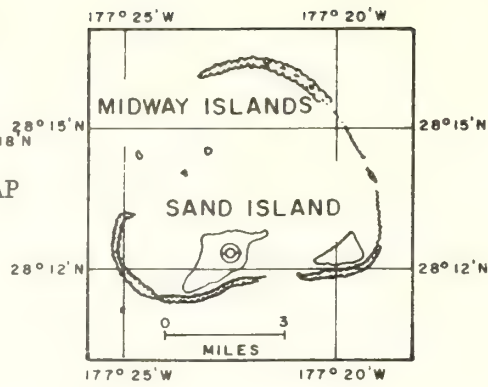
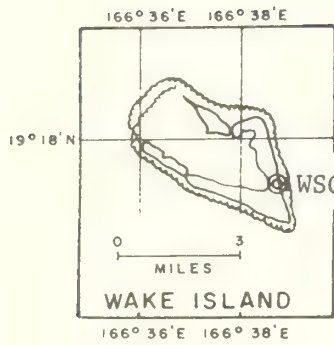








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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	HANA AIRPORT 355	MAUI	94	DATE 03
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	23	DATE 14
GREATEST TOTAL PRECIPITATION:	PUOHOKAMOA 2 343 A	MAUI	40.60	
LEAST TOTAL PRECIPITATION:	3 STATIONS		.00	
GREATEST 1 DAY PRECIPITATION:	MAKAHALAU 103	HAWAII	13.00	DATE 19

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	29	E	02	-	81	79	88	0	10	14	1	2	0	27	32	7.9	
HILO WSO 87 AP	29	1.0	6.3	19	NE	17	84	80	75	85	5	5	8	3	1	3	25	46	6.7	
HONOLULU WSO 703 AP	6	9.1	11.5	30	E	16	78	74	56	72	7	8	1	0	0	0	16	66	6.1	
JOHNSTON WSO AP	8	15.7	17.3	37	E	25	86	86	82	85	7	6	12	1	1	3	30	66	7.0	
KAHULUI WSO 398 AP	5	8.9	11.2	28	NE	03	-	78	63	75	5	10	2	0	0	0	17	69	5.4	
KOROR WSO	4	2.2	5.6	17	NE	07	89	-	79	77	0	9	10	3	5	0	27	50	8.2	
KWAJALEIN MISSILE RGN	-	-	-	28++	11	30	85	85	75	80	3	8	5	3	4	3	26	-	-	
LIHUE WSO 1020.1 AP	5	9.7	12.1	30	NE	15	82	85	70	78	5	9	8	1	0	0	23	46	6.5	
MAJURO WSO AP	8	5.4	7.2	26	E	22	81	82	74	77	3	7	9	3	3	1	26	68	8.8	
PAGO PAGO WSO AP	11	7.8	11.0	28	NE	25	87	87	76	83	4	9	15	5	1	1	25	32	7.2	
PONAPE WSO	-	-	-	16	S	26	93	-	79	80	1	2	9	8	7	1	28	37	8.9	
TRUK,MOEN I, WSO AP	13	1.5	8.8	37	SW	28	87	-	79	80	1	10	7	3	5	3	29	18	9.6	
WAKE ISLAND WSO AP	7	14.7	16.7	52	NE	24	90	89	78	85	4	12	9	1	0	0	26	47	5.7	
YAP WSO AP	7	5.4	7.2	37	E	03	91	-	80	77	2	9	8	3	2	0	24	64	7.8	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	TEMPERATURE											PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										32° OR BELOW	32° OR BELOW	32° OR BELOW	32° OR BELOW					TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A												3.15		.68	30		0			0	0		
KANALOHULU 1075													5.29	- 2.59	.55	29		0			9	1		
KILAUEA POINT 1133													3.04					0						
KOLOA 936	A												.75	- 1.69	.36	30		0			2	0		
LIHUE WSO AP 1020 1	//R	79.1	70.4	74.8	- .4	83	6+	63	27		0	0	0	0	14.13		2.30	1		0				
MANA 1026													12.76		.63			0						
N WAILUA DITCH 1051	A												1.23	- 2.16	1.00	30		0			2	1		
PH WAINIHA 1115													1.41	- 2.46	.67	30		0			1	1		
PUEHU RIDGE 1040													8.91	- 3.11	1.15	30		0			20	9		
WAILUA 930	A												.55	- 1.81	.51	30		0			1	0		
WAILUA LOWER 1054		78.1	63.6	70.9		82	7+	58	28		0	0	0	0					0					
WAILUA 947		84.7	66.0	75.4		89	7	63	21		0	0	0	0					0					
ISLAND				73.7									5.12					0						
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA																								
B Y U LAIE 903.1		79.8	69.9	74.9		83	2	63	28+		0	0	0	0	4.79		1.47	1		0		0		
HONOLULU OBSERV 702.2		85.0	66.4	75.7		89	7	59	26		0	0	0	0	.47		.29	1		0		1		
HONOLULU WSO AP 703	R	84.8	69.9	77.4	.9	88	22+	60	27		0	0	0	0	.52	- 2.47	.26	1		0		0		
KANEHOE MAUKA 781		78.7M	M	M				65	27		0	0	0	0	5.74	- 2.33	1.13	11		0		15		
KOOLAU DAM 833	A												12.13		3.75	1		0			17	7		
MANOA LYON ARBORETUM		77.8	67.0	72.4		85	30	62	28+		0	0	0	0	15.87		3.22	1		0		18		
NUUANU RES 4 783																			0			9		
OPAEULA 870	A	81.8	66.2	74.0	3.6	85	21+	59	28		0	0	0	0					0					
PALOLO VALLEY 718	R																		0					
PUEU MANAWAHUA 725.6		78.4	63.9	71.2		83	24+	57	26		0	0	0	0	.38		.09	1		0		0		
WAILUA 837	A												10.01		2.50	1		0						
WAILALEE 896.3																			0					
WAILUA 847	A	81.3	65.0	73.2	- .3	89	8	58	28		0	0	0	0	2.19	- .96	1.23	1		0		5		
WAIKIKI 717.2		85.3	68.3	76.8		89	25+	59	27		0	0	0	0	1.57		.54	2		0		4		
WAIMANALO EXP FM 795 1		79.9	69.5	74.7		84	8	62	28		0	0	0	0	4.16		1.36	1		0		8		
WAILUA 750	A													.80		.60	1		0			1		
ISLAND				74.5									4.89					0						
ISLAND OF MOLOKAI																								
MOLOKAI AP 524		82.6	67.5	75.1		90	25	60	19+		1	0	0	0	1.33		.24	8		0		6		
ISLAND				75.1									1.33					0						
ISLAND OF LANAI																								
LANAI CITY 672	A	75.2	62.1	68.7	- .3	84	29	57	26+		0	0	0	0	.58	- 3.55			0			0		
ISLAND				68.7										.58				0						
ISLAND OF MAUI																								
HALEAKALA EXP FARM 434	A												16.89		5.85	18		0			12	6		
HOLEAKALA R S 338		62.2	43.5	52.9	- .7	69	8	36	10		0	0	0	0	9.55	4.00	4.45	18		0		7		
HANA AIRPORT 355		81.6	70.6	76.1		94	3	65	27+		1	0	0	0	6.73		1.39	1		0		16		
HONOKOHUA 493	A													5.69				0				3		
KANAPALI AP 453.1		83.5	65.6	74.6		89	5	60	28		0	0	0	0	.89		.30	14		0		2		
KAHULUI WSO 398 AP	R	84.3	68.6	76.5	1.2	91	22	62	28		1	0	0	0	.80	- 1.53	.20	17		0		2		
KAILUA 446		M	M	M		80	6+	61	28+		0	0	0	0	12.42	.13			0			0		
KEANAE 346	A													23.30				0						
KIPAHULU 258														5.06	- 4.60	.61	30		0		19	2		
KULA HOSPITAL 267		M	M	M				50	28+		0	0	0	0				0				0		
LAHAINA 361		86.5	66.5	76.5	1.3	89	4+	61	28		0	0	0	0	.07	- 2.00	.07	19		0		0		
PAIA 406														1.97	- 1.44	.43	18		0		5	0		
WAILUKU 386	A													1.36	- 1.43			0				0		
ISLAND				71.3									7.06					0						
ISLAND OF HAWAII																								
HAWAII VOLCAN NP HQ 54	R	70.3	53.2	61.8	- 1.2	74	30+	48	24+		0	0	0	0	15.12	3.65	5.98	18		0		14		
HILO WSO AP 87		80.3	65.6	73.0	- .5	85	30	61	7		0	0	0	0	21.56	7.79	11.30	17		0		15		
HUEHUE 92 1	A													2.90		2.62	17		0			3		
KAINALOU 73.2		80.2	63.1	71.7		83	30	60	26+		0	0	0	0	2.97	- 1.32	1.18	16		0		4		
KAPOHO BEACH 93.11		82.9	68.3	75.6		88	8+	64	7		0	0	0	0	14.19		4.61	18		0		16		
KEAAU 92															22.67					0				
KONA (KAILUA) 68.3	A													25.29	18.79	7.88	18		0		13	8		
KUKUIHALE FIC 199														20.57		10.23	18		0			6		
KULANI CAMP 79		65.8M	47.1M	56.5M		73	16	41	27+		0	0	0	0					0			6		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
NOVEMBER 1979

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
NOVEMBER 1979

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	3.15	.40	.02			.21	.05					.13		.24	.18					.10	.07						.60	.18	.02	.20	.8		
BRYCESWOOD STA 985	A	2.89	.35	.02			.09	T	.02	T			.01		.31	.13	.06				.61	.03	T					.14	T		.10	1.02		
EAST LAKE 934	A	4.82	.51	.18			.15	.02	.02	.02			.05		.45	.40					1.68	.10	.03					.24			.06	.86		
ELELEE 927	A	.90	.05												.06	.02	T				.12	.01								.04	.60			
HALAULA 1110	A	3.38	.36	.09			.36	.04					.26		.38	.18	.04				.17	.05						.44	.16	.03	.10	.70		
HALEMANAHO 1006	A	5.36	.96	.40			.41	.07					.21		.64	.61	.11				.66	.04						.19	.02	.02	.16	.86		
HANALEI TUNNEL 1053	A	17.20																														.17	.20	
HUKILO 945	A	1.05	.02																		.11											.92		
ILILILO INTAKE 1050	A	11.88	.98	.11			2.38	.36		.13	.09	.06		.42	.06	.38	.41	.19			2.32	.14	.03					1.39	.12	.05	.32	1.34		
INTAKE MAININA PC 1086	A	19.00	5.35	.58					.50		1.25				1.60	2.30	1.50				4.06							.90	.26			.70		
KANALOHULU 1075	A																																	
KANEHA RESERVOIR 1092	A	9.01	1.15	.18			.57	.19	.07	.36	.07		.35		.64	.90	.28				.72	.12						1.37	.28	.28	.54	.94		
KEALIA 1112	A	2.70	.35	.08			.11	.05		.02	.05		.26		.27	.14	.03											.33	.14	.05	.10	.45		
KEMAH 944	A	5.40	.40	.14																	.27											.92		
KILAUEA 1134	A	5.45	.40	.18	.08		.04	.25	.20	.01	.35	.13	.08	.04	.40	.47	.11	.26	.28	.29		.03			10	.04	.50	.06	.06	.40	.68	.01		
KILAUEA POINT 1133	A																																	
KOLD 1033	A	.86																										.25	.26			.35		
KOLDA 936	A	5.29	.52	.24			.48	.03	.01	.02			.33		.55	.98	.08				1.36	.05	.02					.08			.05	.49		
KOLDA MAUKA 994	A	4.26							.01						.60	.41					1.47							.33	.14	.03	.04	.67		
KOLOKO RES 1137	A	6.52	.30	.15	.03		.24	.27	.03		.04	.02		.19	.02		.29	.34	.16		.35	.12		.10	.03	.15	.68	.08	.10	.37	1.22	.43		
KUKUIULA 935	A	2.29	.21	.09			.05	.01	.01	T			.15		.17	.37	.05				.38	.04	.01							.01	.04	.70		
LIHUE VARIETY ST 10621	A	4.65	.90	.24			.14	.10		.05			.20		.15	.75	.05	.10			.87	.42						.18		.12	.42	.62		
LIHUE 1020	A	3.70	.59	.11			.02	.01		.02	.01		.48		.14	.72	.26	.04			.26	.05						.01	.01	.01	.13	.06	.61	
LIHUE WSO AP 1020.1	/R	3.04	.34	.16	.08		.07	.17	.03	T	.23	.33	.03	T	.34	.44	.02	.02	.13	T	.03	T	.01					.08	.15	.55	.03	.59		
MAKALEI 965	A	.67																																
MANA 1026	A	.75																										.12	.09	.03	.03	.36		
MOHIHI UPR CROSS 1083	A	6.95	.67	.25		.17	.08		.59	.08	.25	.17		.34	.67	.59	.42	.17	.17		.08							.08	.50	.17	.08	1.34	.08	
MOLOAA 1145	A	3.39							.10																									
MOUNT MAIALEALE 1047	R																																	
NIU RIDGE 1035	A	.97																			.12								.09		.06	.64		
N WAILUA DITCH 1051	A	14.13	2.30	.72			2.25	.30	.05	.42	.02		.30		.05	.67	.47	.33			1.88	.12	.01						1.47	.10	.33	.66	1.68	
N WAILUA RIVER 1055	A	8.20																														8.20		
PH MAININA 1115	A	12.76	1.45	.47			.82	.03		.17	.03		.70		.05	.90	1.28	.38			2.00	.23	.01					3.74	.21	.22	.01	.06		
PRINCEVILLE RANCH 1117	A	6.05	.44	.16			.68	.05	.01	.03	.01		1.06		.12	.82	.02	.26			.90	.11	.03		.20			.59	.03	.22	.10	.21		
PUEHU RIDGE 1040	A	1.23	.16																													1.00		
PUNI 1013	A	4.68	.74	.23			.13	.09					.41		.93	.56	.04				.33	.04							.17		.04	14	.93	
WAIHANA 930	A	1.41	.08												.18	.03	.01				.38	.02							.01		.03	.67		
WAIHAI LOWER 1054	A	8.91	.74	.45	.53		.27	.22	.51	.05	.18	.23	.09		.74	.51	.14	.39	.69		.66	.14	.09	.51	.14	.04		.08	.02	.11	.23	1.15		
WAIHAI UPPER 1052	A	10.41	.87	.41	.51		.47	.44	.39	.09	.14	.03		.28	.05		.03	.42	.49	.22	.88	.97	.75	.17	.07	.57	.35	.10	.13	.06	.02	.02	17	1.31
WAIHANA 943	A	.62	.04																													.07	.51	
WAILUA KAI 1065	A	3.81	.80	.10			.10	.04	.02	.02			.35		.38	.41	.13				.52								.05	.05	.16	.12	.56	
WAIHANA 947	A	.55	.04	.15			.08								.26	.22	.02																.51	
WEST LAKE 931	A	2.09	.19	.05			.08														.61	.04	.01									.03	.58	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAMA	A																																	
BERETANIA PUMPING STA	A																																	
B Y U LAIE 903.1	A	4.79	1.47	.40	.01		.01	.09	.10		.01	.47	.02	.03	.10	.39	.41	.17	.01		.02	.09						.23	.10	.02		.21	.01	
CAMPBELL IND PK 702.5	A	.05	.05																															
COCONUT ISLAND 640.1	A	3.35										.37																						
EMA PLANTATION 741	A	.47	.34	.10												.03																		
HONOLULU OBSERV 702.2	A	.47	.29	.02												.05	.01				.03													
HONOLULU WSO AP 703	R	.52	.26													.06	.04	.01	.01	.05	.01													
KAENA POINT 841.3	A	.42		.03							.02				.03	.04	.04	.02	.03	.02	.02	.01	.01	.03	.02				.03	.04		.01		
KAHANA 883	A	16.00					5.68														5.08													
KALIHI RES SITE 777	R																																	
KANEHE MAUKA 781	A	5.74	1.12	.57	.10		.12	.02		.12	.03		.17	1.13	.17		.06	.26	.25		.11	.53	.07		.07	.04	.04		.02	.13	.02	.36		
KAPALANA 773	A	4.23	1.01	.31			.07	.05	.02	.15	.01				.11	.75	.80	.03			.38	.42	.12											
KAWAHAPA 841	A	3.62	1.72	.34						.19					.03	.07	.14				.05	.01												
KEMO CAMP 8 855	A	2.84	.64	.58						.27	.03				.02	.20	.07	T			.10	.01												
KODUA DAM 833	A	12.13	3.75	.52	.21		.30	.20	.14				.12	.01	.01	.21	.84	.57	.07	.52														

HAWAII AND PACIFIC
NOVEMBER 1979SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PAAUHAU 217	25.60									.98	.01	.06	.02	.51	4.48	2.15	8.64	5.79	.61	.06			.42	.04				1.54	.28	.01		
PAAUULO 221	28.91									1.25	.39	.42	.02	.70	4.10	3.70	6.00	7.80	.40	.20	.15		.72				2.00	1.03	.03			
PAHALA 21	10.98									T					T																	
PAHOA 65	26.10									.42		.31	.09	.42	2.29	.95			15.87	.31	.06						3.10	.11	.05	T	.11	
PAPAIOU 144.1	26.36		.15	.05				1.11	.75	.06						.23		5.80	2.42													
			.05					1.26	.41		.04				.58	.01	.16	3.10	1.73									1.01	.01			
PAPAIOU MAUKA 140.1	29.93																															
PIIHONUA 89	A 47.60														.58																	
PUUKOHOLA HEIAU 98.1	A 51																															
PUU LEHUA 73	A 2.00																															
PUUHNHUA-O-HONAUNAU	1.90																															

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DAILY PRECIPITATION

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
ATU'U		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FALEASAO VILLAGE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JOHNSTON IS WSO AP	R	13.80	.26	13	.11	.22	2.42	3.10	.40	.02	.19	T	.05	T	T	.17	T	.01	.10	T	.22	.31	.01	.20	.27	3.92	.01	T	T	.03	.50	1.15	
MIDWAY SAND ISLAND		9.71		33	.09	.40					5.00	.02	2.09	1.47	.01	T	T																
MALAELOA		12.26	.02			.05	.56		.03	T	1.75	1.52	.95	T	.05	.01	T	.22	.37	.42	4.06	.07	.12	.06	T	.75	1.11	.28	T	.03	.10		
PAGO PAGO WSO AP	R	7.89		T		.32	.50	.07	.04	.67	.56	.52		.08	.01		.31	2.30	.44	.16	.03	.08	T	.01	T	.58	1.08	.01	.11	.01	T		
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
AGAT		7.15			.20			.64	2.20	.16				1.40	.15							.50	.05	.20	.32	.47		.55		.16			
ANDERSEN AFB GUAM		7.41	.18	.10	.26	.15	.81	1.19	.35	.03	.02	.03	.36	1.22	.13	.13		.34	.14	T	1.32	.01	.05	.05	.21	.10	.18	.05		.16			
CLARK AFB LUZON		5.76	T	.15	.40		.02	.06	T	.01	1.98	1.28	.06	.28	.08		1.21	T	T	T						.23		T					
DEDEO		9.32	.14	.61	.35	.49	.26	.27	2.09	.17	.70	.53	.13	.70	.53	.13	T	.50	.15	.15	.10	.13	.50	.60	.55	.25	.09	.14	.16	.26			
GUAM NAS		9.29	.06	.25	.49	.05	.09	1.13	3.73	.11	.01	.04	.41	.07	.51	.08	.14	T	.04	.01	T	.65	.09	.23	.49	.18	.04	.16	.03	.20			
GUAM WSMO	R	6.78	.07	.27	.57	.02	.02	.34	1.60	.08	.03	.01	.23	.20	1.10	.15	.21	.01	.11	.06		.20	.13	.27	.31	.32	.09	.18	.07	.13			
INARAJAN AG STN		7.00	.02		.18		.02	.89	.37	1.61	.10	.02	.09	.04	.68	.07	.09	.06		.21		.77	.03	.14	.02	.76	.21	.04	.50	.06	.02		
INARAJAN - NASA		6.31	.08		.32	.35	.15	.60	.79	.35				.67	.48	.15	.06		.25			1.10	.25	.30	.18	.08	.10	.05					
MANGILAO																																	
SAIPAN LORAN																																	
UMATAC		13.40		.26	1.47	.10	.82	1.20	1.24	.25	.14	.02	.05	.26	.24	.25	.20		.10		.74	1.32		1.00	1.20	.15	.60	.40	.60				
MAKE ISLAND WSO AP	R	3.09		.02	T			T	.01	.22	.14	.02	.05	.05	.01		.09	.18	.09	.01	.07	.10	.12	.41	.23	.34	.01	.09	.60	T	.23		
YIGO		8.02					1.11	.16	.38	1.35	.15	.12	.19		1.83		.35		.40		.11	.23	.15		.39	.30	.19	.11	.50				
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
FALALOP I ULITHI ATOLL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
KAPINGAMARANGI ATOLL		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
KOROR WSO	R	11.57	.54	.04	.09	.17		.88	.18	.06	.05	.54	.01	1.40	.08		.01	.08	.29	1.29	.30	.03		.24	.16	.31	1.19	1.36	.18	.27	.33		
KWAJALEIN MISSILE RGN	R	17.61	.01	.77	.14	2.01	.02	1.18	.67	T	2.65		.05	.32	.01		.08	T	.42	.01	1.57	3.67	.25	.30	.01	.58	.04	T	1.05	1.80			
LELE I KOSRAE																																	
MAJURO WSO AP	R	11.33	.64	1.93	.07	1.53	.05	.08	.33	1.18	.15		.02	.01	.25		.54	T	.04	.69	.29	.61	.09	T	.15	.42	.01	T	.16	2.21	.32		
METALANIM		16.50	.16	.08	1.62	.01	1.08	.54	.03	.83	.53		.60	.05	.20		1.54	T		.45	.11	2.19	.17	.95	.02	.02	1.20	1.02					
NGASANG-BABELTHUAP																																	
PONAPE WSO	R	20.09	1.48	.48	.57	1.01	.53	.31	.26	.71	.92	1.21	.32	.32	.72	1.60	1.39	.57	.01	.88	.20	.18	1.00	1.11	.65	.43	.06	2.97	.20	T			
SATANAH ATOLL																																	
TRUK MOEN I WSO AP	R	20.97	.24	.09	.11	.07	.86	2.97	.12		.63	.14	.11	2.68	.01	T	.18	.01	.04	1.55	.16	.05	.05	.68	.08	.07	1.45	4.45	1.23	1.22	1.68	.04	
WOLEAI ATOLL																																	
YAP WSO AP	R	7.34	.14	.72	1.56	.74	.15	.43	.46			.08	.01	.02	.09	.05	T		.02		.12	T	.07	.02	.37	.06	.67	1.26	.18	.12			

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DAILY TEMPERATURES

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
* * *																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX																																
	MIN																																
KILAUEA POINT 1133	MAX																																
	MIN																																
LIHUE WSO AP 1020.1	MAX	82	83	83	83	82	83	82	78	76	79	80	79	74	74	75	79	79	78	80	79	80	82	81	81	77	74	78	78	76	79	79.1	
	MIN	73	72	75	76	77	77	74	69	65	67	67	65	67	69	69	71	70	71	73	72	71	75	76	72	65	65	63	67	69	69	70.4	
NIU RIDGE 1035	MAX	84	85	84	84	88	87	86	86	82	79	83	84	84	81	81	79	82	84	83	82	84	83	84	85	84	84	73	78	80	74	82.6	
	MIN	67	65	64	64	66	64	64	63	64	64	62	62	60	62	61	60	62	64	61	60	59	60	63	63	65	62	61	60	61	67	62.7	
WAIHAI LOWER 1054	MAX	78	79	79	82	80	79	82	80	79	80	79	80	79	79	70	74	79	77	74	79	78	78	79	79	80	70	78	78	79	77	78.1	
	MIN	67	68	67	66	68	68	65	63	60	62	60	61	59	60	62	63	65	67	67	65	65	62	68	64	62	64	59	58	60	64	63.6	
WAIHEA 947	MAX	86	85	88	88	87	88	89	87	84	83	84	85	83	81	84	84	85	86	86	85	84	83	85	86	86	84	82	83	84	77	84.7	
	MIN	70	69	68	67	69	67	67	68	64	66	66	67	66	65	65	65	65	64	65	65	63	64	66	66	65	64	64	64	68	69	66.0	
* * *																																	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX																																
	MIN																																
B Y U LAIE 903.1	MAX	79	83	82	82	81	82	81	82	81	81	82	81	79	79	76	78	78	77	79	79	79	81	80	80	81	75	78	78	79	81	79.8	
	MIN	72	72	71	73	74	73	73	70	65	66	70	67	66	67	71	74	72	73	72	71	72	75	75	69	67	65	63	63	69	66	69.9	
HONOLULU OBSERV 702.2	MAX	85	82	88	88	87	88	89	88	83	84	85	84	84	84	80	83	85	85	86	87	85	87	88	86	85	82	80	83	85	84	85.0	
	MIN	70	68	67	71	69	68	68	68	61	64	67	63	63	62	69	69	70	71	71	71	63	66	68	67	66	59	60	61	66	65	66.4	
HONOLULU WSO AP 703	MAX	83	87	88	88	88	88	88	83	82	84	84	83	85	79	83	84	84	85	86	85	86	88	87	86	85	80	82	83	86	85	84.8	
	MIN	73	71	72	75	75	73	72	70	64	65	69	65	67	70	71	71	72	74	74	72	70	75	74	69	69	64	60	63	71	66	69.9	
KANEHE MAUKA 781	MAX						82	81	83					82	75	73	78	79	79	77	79	76	82	79	80	80	76	75	79	78	79	78.7	
	MIN						67	73						68	68	71	71	69	70	72	69	70	82	73	71	70	67	65	66	67	71		
MANOA LYON ARBORETUM	MAX	77	73	78	81	82	80	81	81	77	77	79	79	81	73	71	75	76	75	75	78	74	79	78	81	83	78	74	77	77	85	77.8	
	MIN	69	69	71	70	70	71	69	68	63	64	66	67	66	66	65	67	67	67	69	67	67	70	70	69	65	62	62	62	66	65	67.0	
OPAEULA 870	MAX	82	82	80	80	82	82	82	82	82	73	74	82	85	84	85	84	75	77	85	85	85	81	83	81	80	84	84	84	84	84	81.8	
	MIN	68	67	66	69	69	69	68	67	65	64	64	69	65	65	65	65	67	69	67	65	69	66	66	65	64	67	67	59	67	64	66.2	
PUU MANAWAHUA 725.6	MAX	79	81	80	80	81	83	82	76	77	74	75	80	76	73	74	76	76	76	79	78	80	82	81	83	80	74	76	78	81	81	78.4	
	MIN	66	67	67	67	67	65	64	61	62	63	62	62	63	62	62	64	65	65	64	64	67	66	65	65	59	57	62	65	65	65	63.9	
WAIALEE 896.3	MAX																																
	MIN																																
WAIALUA 847	MAX	81	78	84	84	84	87	87	89	80	78	78	80	81	79	75	79	80	80	80	83	82	82	84	84	84	72	77	80	81	85	81.3	
	MIN	70	68	64	66	64	68	65	68	63	64	66	62	67	63	66	69	66	66	70	69	63	65	64	64	64	64	61	58	60	61	65.0	
WAIKIKI 717.2	MAX	86	79	87	88	87	87	89	87	84	84	86	85	88	86	80	82	83	84	85	84	84	86	87	88	89	86	81	84	85	88	85.3	
	MIN	72	69	71	74	72	74	71	69	63	64	67	65	65	66	66	70	69	72	71	71	72	70	73	67	68	61	59	60	71	66	68.3	
WAIMANALO EXP FM 795.1	MAX	82	77	82	82	82	82	83	84	80	79	78	77	81	79	77	79	79	79	78	81	78	82	81	81	82	76	76	80	78	82	79.9	
	MIN	71	72	72	74	75	75	73	72	67	64	67	67	67	70	68	70	70	73	72	71	71	72	74	70	66	64	64	62	66	67	69.5	
* * *																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX	84	82	86	88	88	88	89	78	80	78	79	80	84	83	76	78	78	78	82	84	83	82	86	85	90	80	79	78	84	87	82.6	
	MIN	70	72	72	72	70	73	70	69	67	64	69	62	66	69	60	64	69	73	60	70	70	70	68	67	66	65	65	64	66	64	67.5	
* * *																																	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX	81	79	80	82	82	83	81	80	77	78	79	80	80	79	75	75	77	78	77	79	79	80	83	83	81	78	75	77	78	83	79.3	
	MIN	67	68	67	67	62	64	62	66	59	60	62	62	62	66	64	64	66	67	67	66	66	66	64	66	63	58	59	63	61	63	63.9	
LANAI CITY 672	MAX	74	78	74	75	78	77	79	71	74	70	74	78	75	75	75	67																

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STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
KILA HOSPITAL 267	MAX MIN																				75 55	75 55	76 55	75 58	77 58	74 53	66 50	65 50	73 53	76 55			
LAHAINA 361	MAX MIN	89 67	88 66	89 69	89 69	88 68	88 66	88 65	83 65	85 64	88 65	87 69	86 65	87 62	87 65	86 67	87 69	85 69	83 72	88 70	87 65	87 66	87 63	88 69	87 68	87 69	87 69	81 68	82 64	85 61	86 64	88 65	86.5 66.5
ISLAND OF HAWAII																																	
HAWAII VOLCANO NP HQ 54	MAX MIN	74 55	74 55	74 55	73 53	71 52	74 55	72 51	73 48	74 53	71 55	67 53	68 51	72 52	73 51	67 55	63 53	65 55	66 54	62 55	69 55	70 53	74 56	71 53	70 48	70 60	70 58	69 53	67 50	71 51	74 49	70.3 53.2	
HILO WSO AP 87	MAX MIN	83 65	83 67	82 65	82 67	82 63	82 65	84 61	80 63	81 62	81 65	81 65	80 64	80 64	76 69	76 66	78 66	73 67	75 69	81 68	81 67	80 65	83 68	82 66	80 64	82 66	77 66	80 70	78 65	82 65	85 65	80.3 65.6	
KAINALIU 73.2	MAX MIN	82 65	81 63	81 63	81 64	81 64	81 64	81 63	80 61	80 62	80 64	79 62	79 61	81 60	80 62	80 64	78 64	78 65	78 65	80 63	81 63	81 63	80 64	81 62	81 66	80 66	80 62	76 60	79 64	82 63	83 64	80.2 63.1	
KAMUELA 192.2	MAX MIN	75 62	75 63	76 61	74 61	73 61	73 53	75 55	79 51	74 54	75 54	74 49	76 49	76 50	72 58	69 60	63 59	63 60	65 62	66 63	71 61	69 60	70 61	76 57	79 54	80 55	75 55	71 51	73 52	81 50	73.0 56.5		
KAPOHO BEACH 94.11	MAX MIN	83 69	87 70	88 69	83 69	84 67	83 69	84 64	88 67	87 67	83 68	85 67	85 68	84 68	83 69	82 70	81 67	80 67	80 67	81 69	82 68	82 68	85 69	84 71	84 69	79 71	84 69	77 69	80 66	83 68	86 69	82.9 68.3	
KONA (KAILUA) 68.3	MAX MIN																																
KULANI CAMP 79	MAX MIN	56 44	66 46	66 46	67 50	72 47	67 47	65 49	67 41	69 43	63 41	64 43	65 45	61 44	62 53	73 50	72 53	65 57	59 50		63 55	66 53		65 46		70 51	64 41	66 42	67 46	71 46		65.8 47.1	
MAUNA KEA OBS 111.2	MAX MIN						52 31	50 31		47 30	51 33	53 34	54 35	54 35	49 23						40	42	43	40	40	41	40	46	47	42			
MAUNA LOA SLOPE OBS	MAX MIN	47 37	46 36	49 33	47 37	56 37	53 38	54 32	53 35	54 37	56 36	56 36	58 38	58 38	55 33	46					50	52	51	49	54	52	57	62	57	54	57	53.2 36.8	
MOUNTAIN VIEW 91	MAX MIN	79 60	80 60	81 61	78 63	77 59	79 61	79 58	81 58	78 59	78 58	76 60	79 60	78 58	72 62	67 61	68 61	71 61	69 63	77 63	77 61	77 61	75 63	77 62	78 59	77 60	83 63	69 62	75 59	75 61	79 60	76.3 60.5	
NAALEHU 14	MAX MIN	80 67	81 68	78 68	78 68	81 67	81 68	81 67	80 62	81 61	77 65	74 63	79 63	78 65	80 63	79 67	78 64	73 65	75 64	78 64	79 65	80 65	77 69	77 68	76 66	76 67	82 63	77 63	79 65	78 64	78 66	78.4 65.5	
SOAKA 223	MAX MIN	82 70	82 69	82 71	82 69	81 70	81 72	82 70	82 68	72 67	78 67	80 66	77 65	79 65	77 64	77 63	74 65	74 67		78 69	79 67	79 67	80 69	80 69	79 69	79 66	82 66	72 65	78 65	78 65	79 66	78.6 67.2	
CPHIALE 2 24.1	MAX MIN	81 59	83 59	83 61	81 61	84 58	83 57	84 57	80 55	81 56	79 55	80 56	78 57	78 57	80 59	80 63	79 58	68 61	81 58	80 57	82 57	82 59	83 59	83 61	79 59	76 59	77 59	81 59	83 58	83 59		80.4 58.7	
POUKOHOLA HEIALU 98.1	MAX MIN	89 71	89 69	88 68	89 73	90 67	91 66	90 68	90 69	89 66	90 70	90 67	89 68	87 68	67 67	69 67	70 68	73 67	76 69	70 62	72 68	74 67	77 70	77 70	73 69	76 69	86 69	86 62	84 67	86 67	88 68	88 68	68.3
SOUTH KONA 2.31	MAX MIN	72 57	75 57	80 58	75 59	75 57	74 61	76 55	75 56	79 57	74 59	74 52	76 55	67 55	67 55	69 58	70 60	73 59	76 61	70 62	72 54	74 56	77 60	77 58	73 56	78 59	77 59	77 57	70 60	77 63	81 61	74.3 57.8	
UPOLU POINT USCG 159.2	MAX MIN	89 62	85 70	86 72	85 66	84 73	85 71	85 67	87 69	86 69	86 70	84 70	84 70	85 70	83 70	79 69	78 66	80 65	79 68	76 67	81 70	82 70	81 71	84 71	82 70	84 70	84 68	80 68	80 68	82 70	82 70	82.9 69.0	

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DAILY TEMPERATURES

HAWAII AND PACIFIC
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STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	84 73	85 75	84 75	84 75	81 73	82 71	84 72	85 77	84 74	84 76	85 75	83 79	84 79	84 75	84 77	83 75	82 74	83 76	83 75	84 73	84 75	82 74	84 76	83 75	80 75	82 76	83 73	84 73	81 74		83.2 74.6	
MIDWAY SAND ISLAND	MAX MIN	83 76	82 71	81 72	80 69	75 69	75 68	79 71	79 73	77 70	75 71	74 70	76 69	81 74	80 74	78 74	81 74	82 72	81 72	80 71	81 69	81 68	79 66	69 66	70 66	73 66	71 66	75 66	72 66	71 59	69 56		70.9 68.4
PAGO PAGO WSO AP	MAX MIN	88 70	87 70	87 71	89 72	87 74	84 74	85 76	83 77	81 77	86 73	86 76	85 79	85 76	85 78	86 77	84 76	87 76	86 74	86 73	86 73	86 75	86 79	86 79	87 75	80 73	86 73	86 78	87 78	89 75		86.6 76.0	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	86 80	87 81	86 80	85 81	86 79	83 78	83 79	85 78	87 80	86 80	85 79	83 79	81 78	84 79	85 77	85 79	84 77	84 76	83 77	83 77	84 79	84 79	84 79	84 79	84 79	83 79	80 77	82 78	83 79	83 78		84.1 78.6
CLARK AFB LUZON	MAX MIN	86 76	88 77	81 76	90 76	90 76	88 76	90 77	90 76	88 77	88 76	90 76	86 72	88 74	86 76	88 74	81 76	88 74	88 74	86 76	86 74	88 74	88 74	88 74	88 74	88 74	88 74	85 74	86 74	86 74	86 74		87.0 75.1
GUAM NAS	MAX MIN	90 75	89 77	90 76	88 78	89 77	85 76	84 74	87 77	90 78	89 78	88 74	86 79	82 76	87 77	87 76	86 77	87 75	87 76	86 76	87 79	87 79	87 79	87 79	87 79	87 79	87 79	87 79	87 79	87 79	87 79		86.9 76.3
GUAM WSMO	MAX MIN	86 73	86 73	85 74	85 77	85 75	83 73	84 74	85 74	85 74	85 72	85 71	85 74	84 74	85 73	84 74	84 72	85 72	86 72	85 72	86 72	86 74	86 75	86 74	85 75	84 74	83 75	83 74	85 70	85 67		84.7 73.6	
INARAJAN - NASA	MAX MIN	87 70	87 75	87 75	87 78	87 74	87 74	83 76	86 74	87 76	87 76	87 75	88 78	87 77	88 77	87 78	87 75	87 76	87 76	87 74	87 78	87 78	87 78	87 78	87 78	87 78	87 78	87 78	87 78	87 78		86.6 75.4	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	87 78	87 77	88 79	86 78	86 78	85 77	85 73	86 76	84 73	83 74	83 77	83 76	81 74	82 73	81 73	81 75	85 75	85 75	85 75	85 75	84 76	84 75	83 76	79 73	83 72	79 70	81 73	82 76	82 77	83 76		83.5 75.0
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KORDOR WSO	MAX MIN	89 76	91 75	91 76	89 76	90 77	88 73	85 74	88 77	90 77	89 75	89 74	89 74	89 73	88 75	89 76	89 76	88 74	89 76	89 76	89 75	89 77	89 77	89 77	89 77	89 77	89 77	89 77	89 77	89 77	89 77		89.1 78.0
KWAJALEIN MISSILE RGN	MAX MIN	89 78	87 75	87 78	86 74	86 80	87 74	86 75	88 79	83 74	89 78	88 79	88 80	90 80	89 76	88 80	89 79	89 80	87 75	88 80	87 76	88 74	88 75	88 78	88 80	87 76	89 81	89 80	87 74		87.5 77.3		
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	86 75	81 72	88 77	87 75	88 76	87 79	85 75	83 75	88 75	88 78	88 78	89 78	90 76	88 77	86 76	88 77	88 75	87 75	87 75	86 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75		87.1 76.5
METALANIM	MAX MIN	89 70	87 71	87 72	87 75	89 71	88 70	87 70	88 72	91 73	88 69	89 71	85 73	89 70	91 69	89 69	86 69	91 69	90 70	89 71	89 72	88 74	88 71	88 69	88 71	88 69	88 69	88 70	88 71	88 71		88.1 70.6	
PONAPE WSO	MAX MIN	90 73	90 73	88 76	90 75	90 74	90 74	91 72	91 75	91 75	90 72	89 72	88 75	91 73	90 73	85 73	88 74	89 72	91 73	91 73	91 74	91 76	91 76	91 76	91 76	91 76	91 76	91 76	91 76	91 76	91 76		89.8 78.6
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	86 76	89 76	88 76	88 77	85 76	83 74	89 79	89 80	88 76	87 76	87 77	82 74	88 74	87 78	88 77	89 76	86 77	86 76	88 77	89 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77	88 77		86.8 76.3
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	88 75	88 73	86 72	88 74	89 74	87 73	85 73	88 77	88 77	88 76	88 75	88 75	86 76	88 74	88 76	88 75	88 74	88 75	88 74	88 75	88 74	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75		87.9 74.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
NOVEMBER 1979

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ITHUE WSO AP 1020 1		EVAP	.30	.26	.25	.25	.41	.15	.40	.08	.23	.13	.21	.29	.22	.69	.28	.33	.28	.27	.18	.30	.15	.27	.25	.15	.42	.08	.16	.20	.35	7.54	
		WIND	239	201	178	200	210	174	157	176	89	95	115	98	85	495	312	312	269	232	233	186	184	161	172	71	104	70	85	80	102	5085	
		MAX	75	76	82	79	82	82	84	83	77	73	78	80	80	76	70	74	76	75	81	78	78	82	82	82	78	69	77	78	80	78.2	
		MIN	66	65	65	66	66	67	65	62	59	60	62	61	60	60	60	61	62	63	64	62	66	62	65	63	56	55	55	66	64	62.3	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP	.29	.17	.30	.30	.33	.45	.47	.45	.45	.41	.23	.45	.45	.40	.31	.55	.60	.48	.50	.60	.45	.45	.60	.40	.45	.60	.38	.45	.45	.35	12.77
		WIND	18	13	15	22	30	26	18	20	28	16	15	19	16	19	42	56	47	38	27	32	24	20	17	22	18	50	35	14	14	19	750
		MAX	86	82	88	91	89	90	92	90	88	82	81	85	89	85	84	85	86	86	84	87	89	87	88	89	89	84	79	79	81	85	86.0
		MIN	69	67	67	68	68	68	67	67	63	62	65	64	65	65	65	64	64	67	68	67	64	64	68	68	67	61	60	59	62	65	65.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
* * *																																
EAST OF 180TH																																
MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.31	.35	.21	.25	-	-	.21	.34	.34	.26	.11	.26	.38	.24	.35	.49	.18	.31	.27	.31	.28	.37	.39	.33	-	.27	.31	.23	.25	.17	8.63b
	WIND	201	190	187	195	203	149	228	212	175	155	147	220	242	201	200	274	229	207	226	232	220	227	215	203	251	183	181	166	88	143	5950
PAGO PAGO WSO AP	EVAP	.37	.27	.22	.29	.21	.22	-	.39	.30	.39	.32	.35	.34	.28	.25	.18	-	.19	.32	-	.27	.35	.29	.39	.33	.27	.31	.23	.25	.17	7.588
	WIND	37	33	28	50	49	40	130	170	168	95	232	212	215	197	183	153	107	59	80	117	84	100	165	169	151	.39	.33	.27	.31	.23	3444
	MAX	98	96	97	100	96	91	92	91	82	95	92	91	93	90	92	94	90	89	87	90	90	95	95	96	95	83	95	90	91	98	92.5
	MIN	70	73	71	72	76	74	74	77	75	73	75	74	74	73	74	75	73	70	69	74	70	73	75	73	73	69	72	75	76	74	73.2
* * *																																
WESTERN PACIFIC ISL,																																
NORTH OF 12 N																																
GUAM WSMO	EVAP	.31	.13	.29	.25	.28	.21	.10	.13	.24	.25	.31	.22	.08	.08	.15	.34	.25	.24	.10	.23	.24	.12	.21	.27	.23	.09	.23	.06	.15	.14	5.93
	WIND	82	155	153	145	139	121	217	147	117	101	94	140	128	116	125	152	111	112	49	90	133	140	150	185	196	154	109	54	49	43	3707
	MAX	86	84	84	81	87	89	89	86	86	87	86	86	86	86	84	87	88	88	87	87	87	85	85	84	86	82	87	83	89	88	86.0
	MIN	71	71	72	75	70	73	73	72	72	69	69	70	70	70	68	66	66	70	68	69	72	72	71	72	72	70	69	71	70	68	70.5
* * *																																
CAROLINE AND																																
MARSHALL ISLANDS																																
YAP WSO AP	EVAP	.15	.18	.12	.89	.21	.15	.27	.08	.30	.01	.34	.12	.14	.26	.18	.24	.22	.18	.22	.27	.26	.20	.20	.08	.17	.20	.06	.15	.10	.16	6.11
	WIND	46	82	74	183	34	43	74	37	34	30	38	25	50	41	53	49	87	63	76	88	56	43	44	76	75	85	46	32	15	28	1707
	MAX	95	100	86	94	94	87	89	88	89	97	96	90	94	95	97	100	100	92	86	85	90	88	94	90	92	89	83	95	93	95	92.1
	MIN	76	75	74	74	74	75	74	75	75	77	77	75	75	76	75	73	73	75	75	75	74	74	76	75	75	75	73	73	74	75	74.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHOU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHOU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIIHOU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HAKIPU 945	2161	03	WAIKOA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILUUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULU 1075	3099	03	WAIKOA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHOU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHOU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHOU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	A 4272	03	WAIKOA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALEI		22 14	159 24	180	7A	7A			VALERIE BYRD
KOLO 1033	4735	03	WAIKOA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHOU		22 11	159 23	560		7A			PRAXOS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWILI 965	A 5864	03	WAIKOA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIKOA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIKOA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHOU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIKOA 1047	R 6565	03	WAIKOA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIKOA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIKOA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIKOA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIKOA LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIKOA UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAILUA 943	9253	03	WAIKOA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIKOA 947	9629	03	WAIKOA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WFO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO		21 31	157 54	800		WI			WAILUA WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO		21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
NOVEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL 1-SEE NOTES	
ISLAND OF OAHU												
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS CHARLES COOKE
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240					
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB CC DEPT PKS RECREATION	
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID		BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC	
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20					
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854					
WAIAHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		WAIAHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALEE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIAHOLE WATER CO LTD WAIAHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL U H WAIMANALO EXP FARM	
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALEE 896.3	9190	01	KOOLAULO		21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A			
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIAHOLE WATER CO LTD BOARD OF WTR SUPPLY	
WAIMEA 892	9593	05	WAIALUA		21 38	158 04	330					
WAIPAHU 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A		KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD	
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140					
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825					
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070					
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI		U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY	
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A			
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAUUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKEAKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A	0175	02	HANA	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474		0541	04	LAHAINA	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A	0790	04	LAHAINA	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	A	0995	01	MAKAWAO	20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R S 338		1004	02	MAKAWAO	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILLE 423	A	1075	01	MAKAWAO	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355		1125	01	HANA	20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A	1882	04	LAHAINA	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A	1887	04	LAHAINA	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A	1914	04	LAHAINA	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1		2307	04	LAHAINA	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A	2630	01	MAKAWAO	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUUAULA INTAKE 375	A	3433	04	LAHAINA	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410		3910	03	MAKAWAO	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311		4489	03	WAILUKU	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A	4887	04	LAHAINA	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5		5000	02	MAKAWAO	20 46	156 20	3050	1P	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267		5006	02	MAKAWAO	20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361		5177	04	LAHAINA	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A		5404	04	LAHAINA	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A	6521	04	LAHAINA	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	A	6645	04	LAHAINA	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A	7040	01	MAKAWAO	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1		7059	04	LAHAINA	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350		7194	01	HANA	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6		7952	01	MAUI	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMO 2 343	A	8336	01	HANA	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396		8543	03	WAILUKU	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A	8553	01	HANA	20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2		8688	03	WAILUKU	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A	8744	01	MAKAWAO	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEHU CAMP 484	A	9275	03	WAILUKU	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336		9335	01	MAKAWAO	20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A	9376	03	WAILUKU	20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A	9460	01	HANA	20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A	9484	03	WAILUKU	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A	9765	02	HANA	20 38	156 12	220		0C			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A	0040	05	N KONA	19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A	0150	02	HILO	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214		0840	01	HAMAKUA	20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142		0905	02 S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03 KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02 HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54		1303	02 KA'U		19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01 N KOHALA		20 14	155 50	580		6A		C	K L BOND
HILO COUNTRY CLUB 86.6		1487	02 HAWAII		19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87	R	1492	02 S HILO		19 43	155 04	36	MID	MID		C	NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04 N KONA		19 38	155 55	3220		M0			STATE DIV OF FORESTRY
HONAUNAU 27		1665	04 S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02 N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02 S HILO		19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUULA 71	A	2047	04 N KONA		19 40	155 53	6250		M0			STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04 N KONA		19 42	155 52	8190		M0			STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04 N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAHALOA 29	A	2327	04 SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8		2512	03 KA'U		19 08	155 46	4120				C	RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01 HAWAII		20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04 KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04 N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04 HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02 S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAHA 2 5	A	3048	03 KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2		3077	01 S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03 KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02 HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02 PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01 HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02 PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03 KA'U		19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04 S KONA		19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02 HAMAKUA		19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A	4625	03 KA'U		19 04	155 38	1925		M0			STATE DIV OF FORESTRY
KOHALA MISSION 175.1		4680	01 N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01 HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04 N KONA		19 39	156 01	30	VAR			C	FAA
KONA VILLAGE 93.8		4765	04 N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01 HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01 HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01 HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02 S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05 N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02 S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01 S KOHALA		20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAW 68.2		5330	04 N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103		5761	02 HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03 KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02 HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05 HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01 N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03 KA'U		19 11	155 30	600		M0			KAWAIIHAE RANCH
MOUNTAIN VIEW 91		6552	02 PUNA		19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A	6588	03 KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A	6697	04 S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02 N HILO		20 01	155 17	430	6A	6A		C	DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04 S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02 PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAW 217		7204	01 HAMAKUA		20 05	155 26	415		8A		C	DAVIES HAMAKUA SUGAR CO
PAAULIO 221		7312	01 HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03 KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02 PUNA		19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02 PUNA		19 30	154 57	683				C	GEORGE SALAZAR
PAPAIOU 144.1		7711	02 S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	A	7721	02 S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02 S HILO		19 44	155 10	1730		M0			STATE DIV OF FORESTRY
POHAKULOA 107	A	8063	02 HAMAKUA		19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04 N KONA		19 34	155 49	4880		M0			W H GREENWELL RANCH

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ISLAND OF HAWAII												
PUUHONUA O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A		C	MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKALOA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P		NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- $\frac{1}{2}$ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

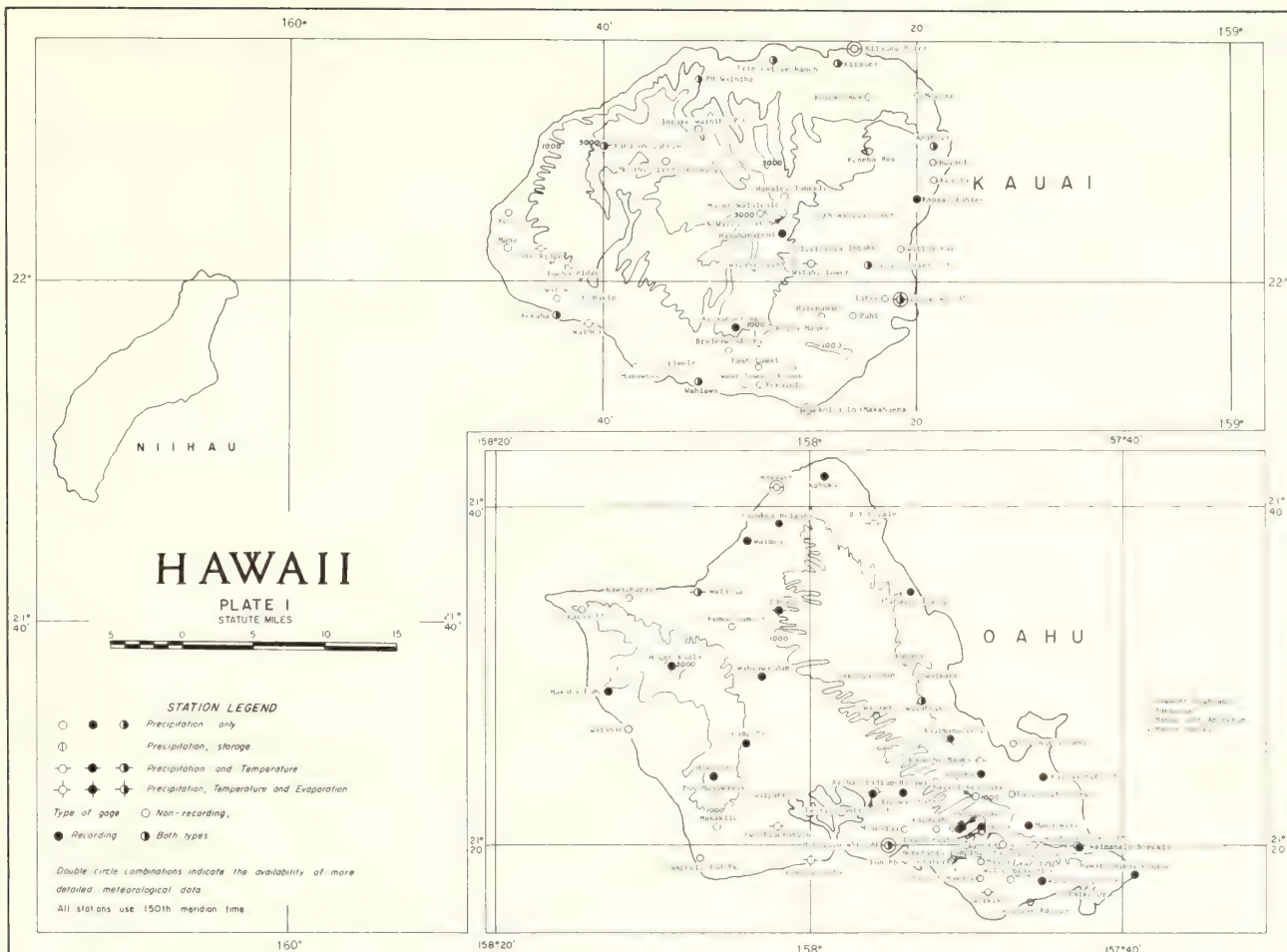
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

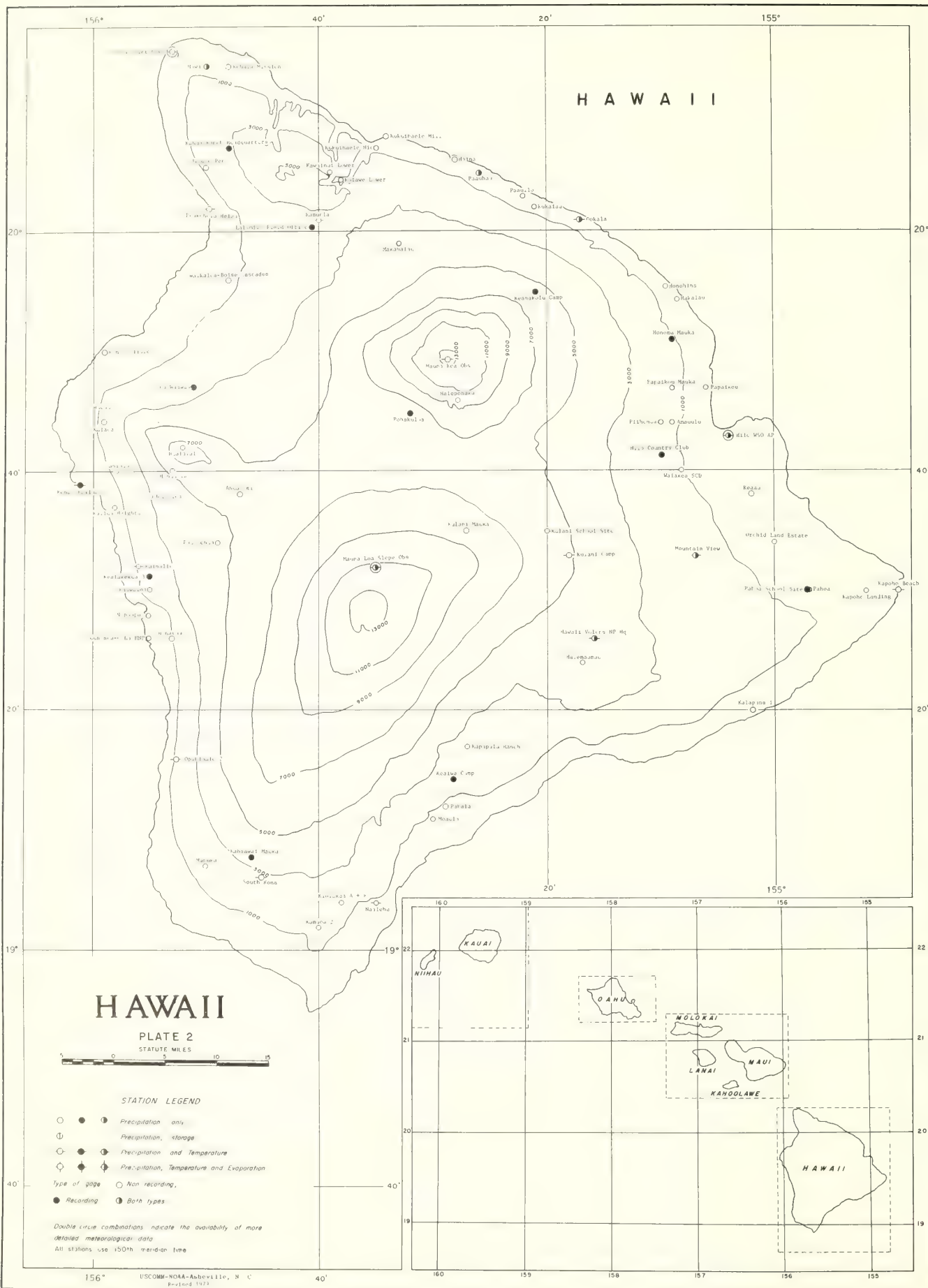
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

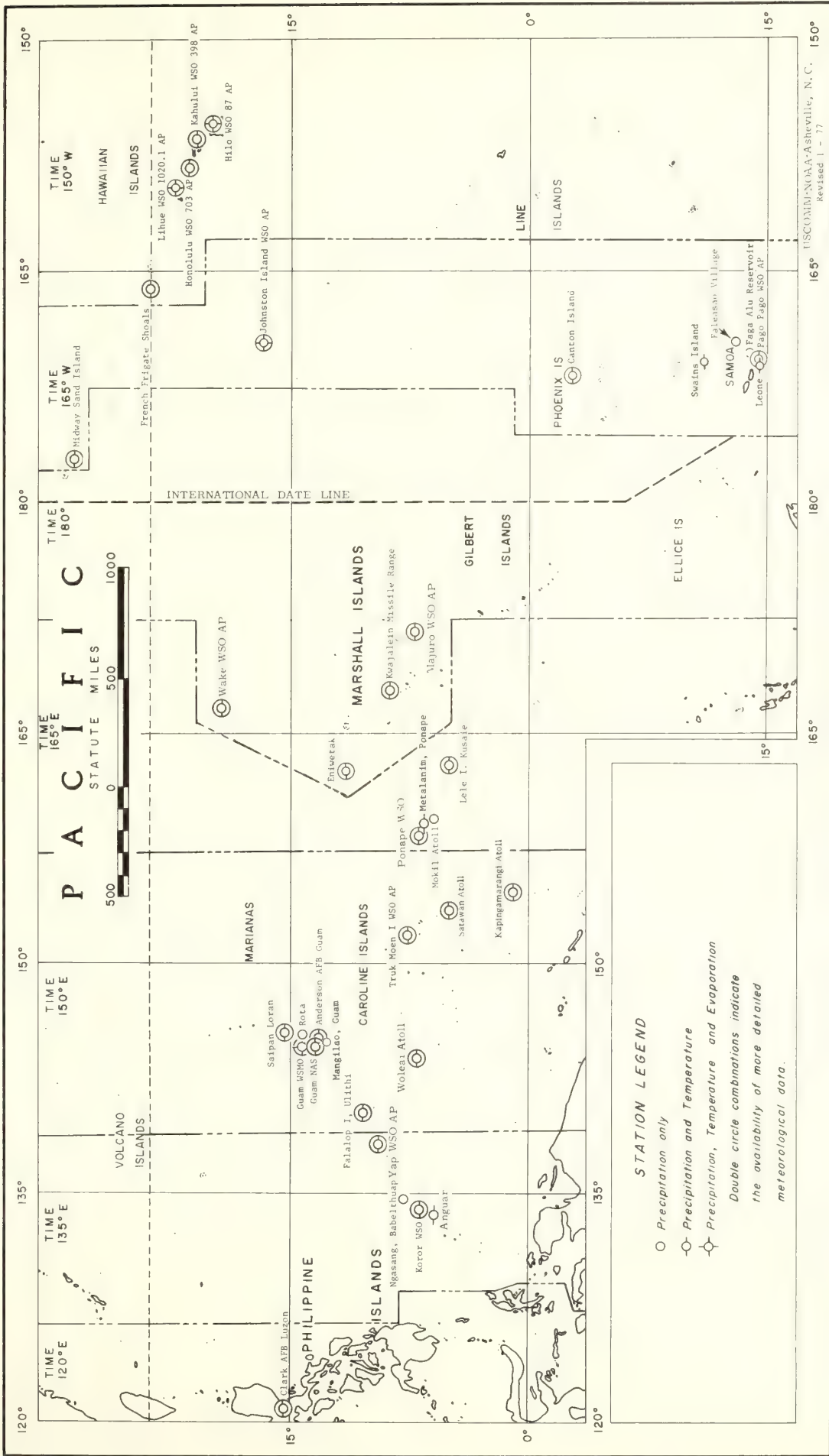
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

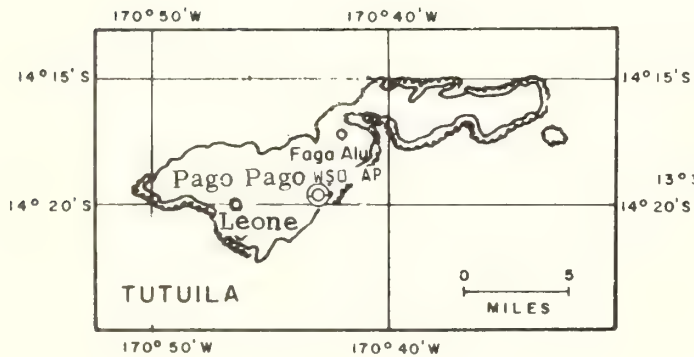
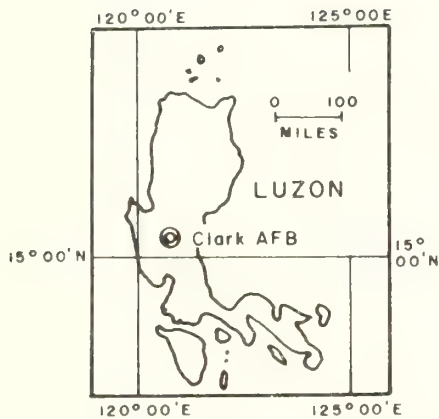
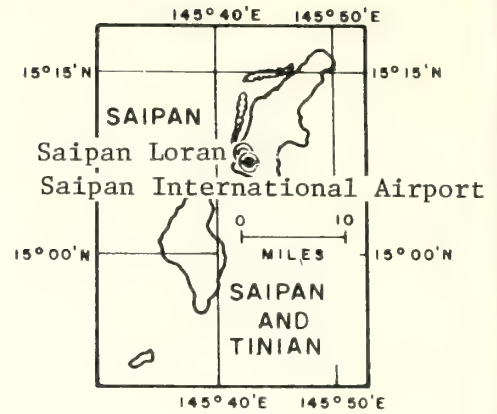
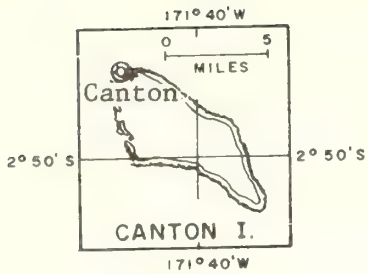
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
ATTN: Publications

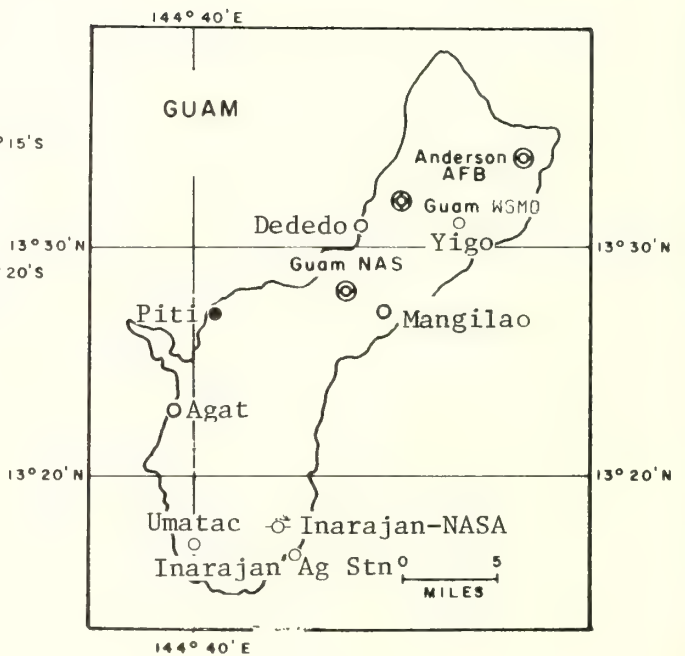


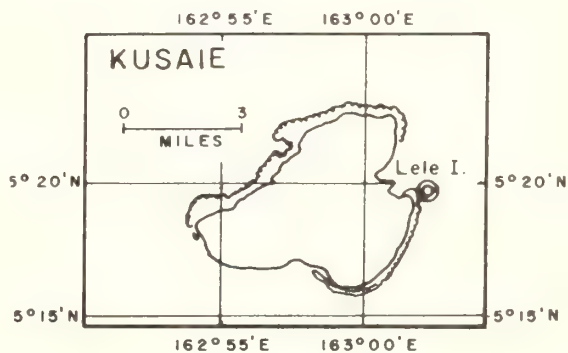
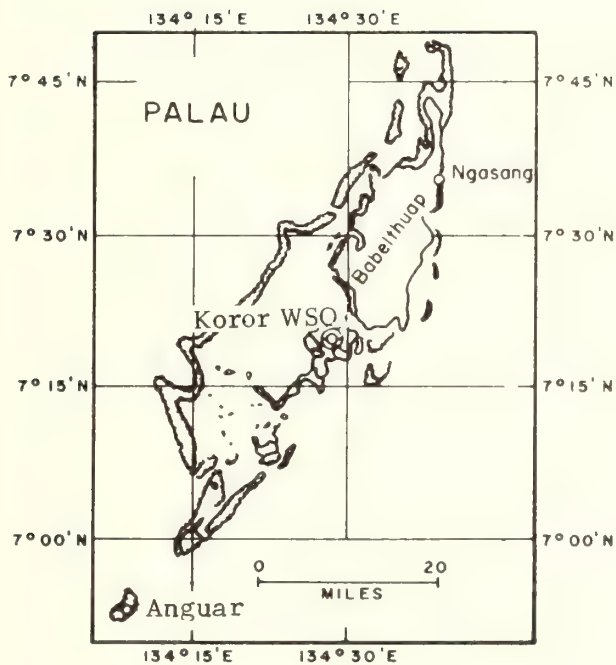
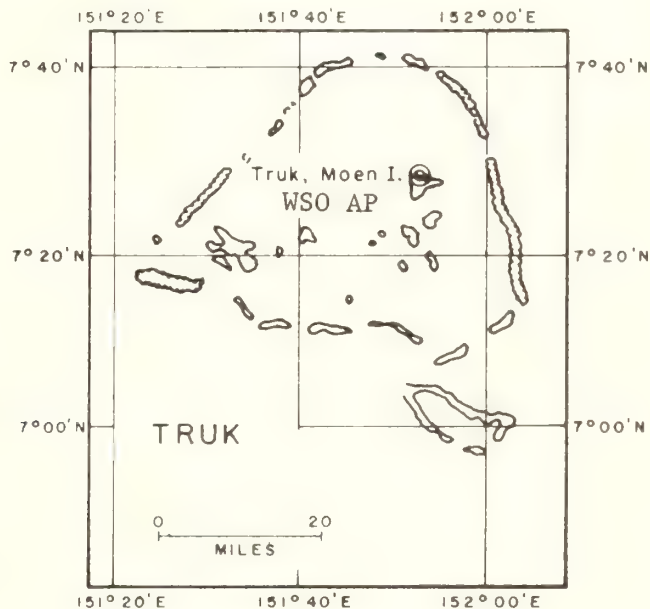
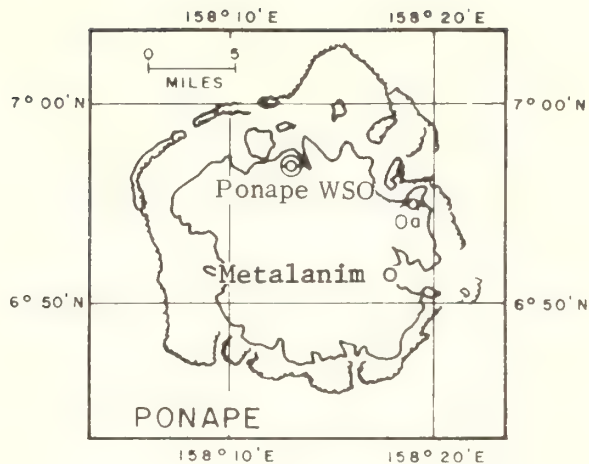
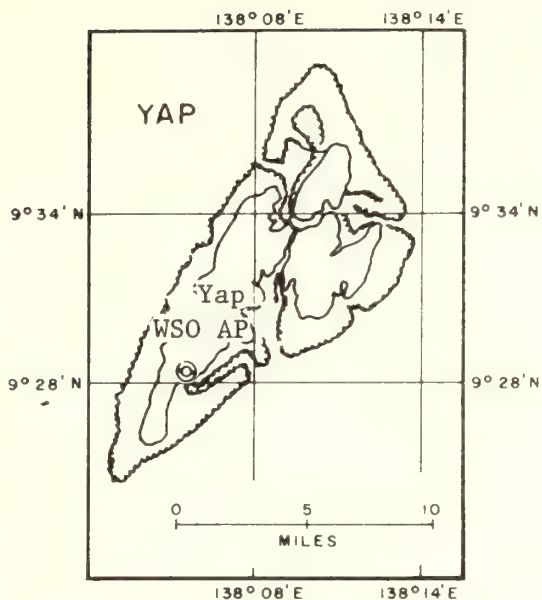




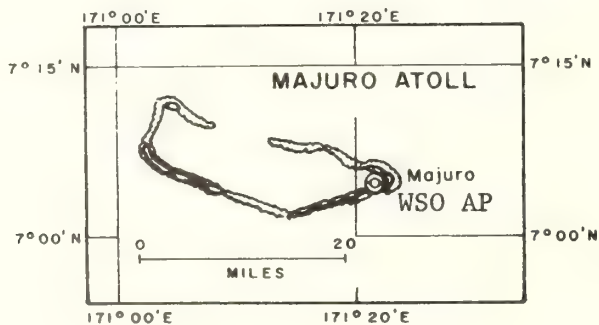
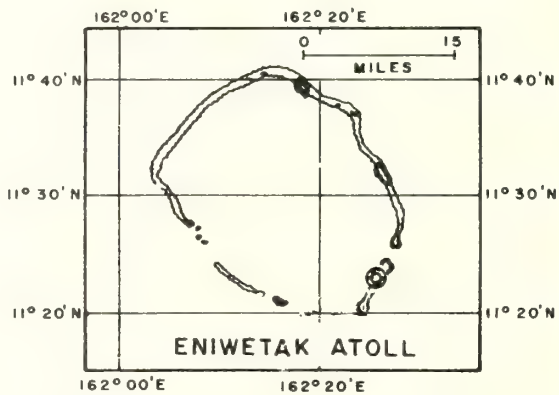
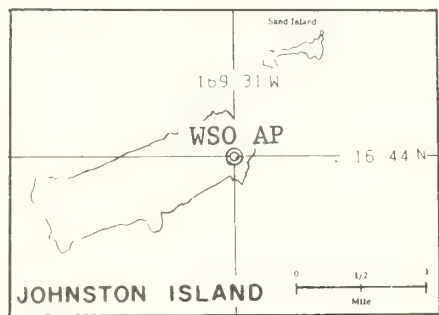
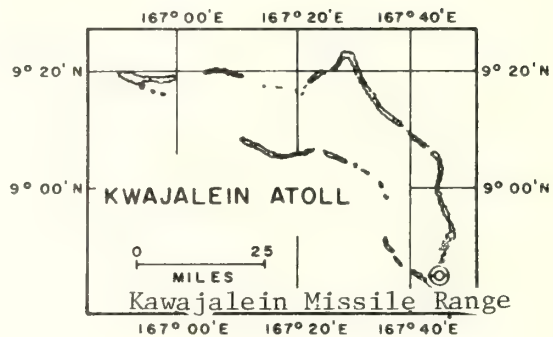
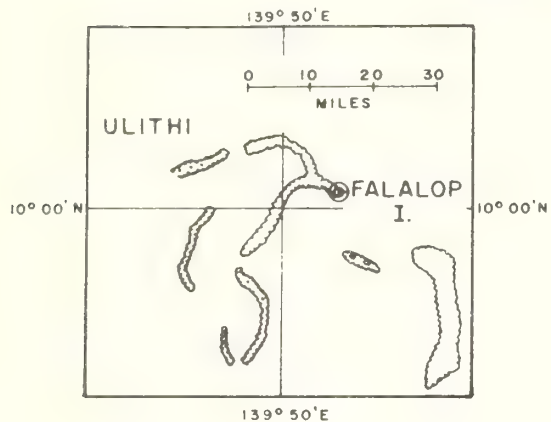
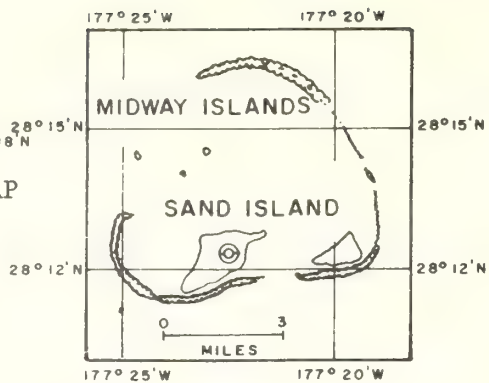
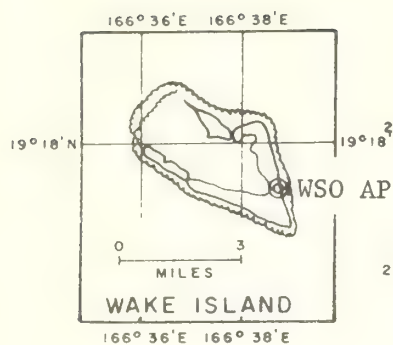


Reef





— Reef



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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	91	DATE	12
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	20	DATE	27
GREATEST TOTAL PRECIPITATION:	MANOA LYON ARBORETUM	OAHU	16.25		
LEAST TOTAL PRECIPITATION:	2 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	MANOA LYON ARBORETUM	OAHU	7.00	DATE	25

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES - PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	26	E	23+	-	78	78	89	1	13	6	5	0	0	25	56	7.9	
HILO WSO 87 AP	25	0.6	5.5	21	NW	25	85	81	68	84	5	4	13	1	2	0	25	52	5.4	
HONOLULU WSO 703 AP	4	4.1	9.6	34	W	31	81	82	62	77	7	6	6	0	0	0	19	63	5.2	
JOHNSTON WSO AP	7	13.2	15.1	39	E	03	83	85	78	83	3	12	2	0	0	1	18	72	5.1	
KAHULUI WSO 398 AP	6	4.8	11.1	35	NE	03	-	83	66	78	2	12	2	1	2	0	19	68	4.9	
KOROR WSO	3	2.7	6.8	22	NE	09	88	-	79	76	4	8	8	0	4	1	25	43	8.8	
KWAJALEIN MISSILE RGN	7	12.5	13.4	26++	7	26+	82	83	75	78	2	8	15	2	2	0	29	-	8.8	
LIHUE WSO 1020.1 AP	2	4.0	10.0	28	NE	03	86	82	70	80	3	9	5	2	1	0	20	39	5.8	
MAJURO WSO AP	7	10.1	11.0	29	E	26	81	81	75	80	2	9	8	5	1	0	25	69	9.6	
PAGO PAGO WSO AP	10	4.5	10.9	38	NW	11+	86	84	74	80	1	8	8	1	2	1	21	29	8.1	
PONAPE WSO	-	-	-	19	SW	04	90	-	79	79	2	2	11	3	4	2	24	24	9.5	
TRUK, MOEN I, WSO AP	6	3.1	9.7	39	W	05	83	-	78	78	5	6	9	2	1	1	24	45	9.7	
WAKE ISLAND WSO AP	7	9.4	12.5	38	E	01	82	82	70	77	4	13	3	0	0	0	20	56	5.2	
YAP WSO AP	6	4.9	8.3	23	E	21	88	-	78	77	4	6	10	1	3	2	26	68	8.5	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
DECEMBER 1979

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
											50° OR 32° OR BELOW	32° OR 32° OR BELOW	32° OR 32° OR BELOW	32° OR 32° OR BELOW					TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	.10 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
DECEMBER 1979

STATION		TEMPERATURE										PRECIPITATION																
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS						
											MAX.	MIN.							TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
												30° OR ABOVE	32° OR BELOW	32° OR BELOW														
HAWAII																												
PAHALA 21		A	85.7	66.0M	75.9M		91	12	59	24		2	0	0	0	1.21		.33	18+	.0	0			0	0	0		
PIUKOHOLA HEIAU 98.1			74.3	55.4	64.9		79	17	57	24		0	0	0	0	1.94		.79	25	.0	0			1	1	0		
SOUTH KONA 2.31																1.38		.57	4	.0	0			5	1	0		
WAIKAE SCD 88.2																6.58		1.02	8	.0	0			15	4	1		
ISLAND				68.0											4.15				.0									

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
DECEMBER 1979

STATION		TEMPERATURE											PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.	MIN.	32° OR BELOW	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DAY	1.0 OR MORE	.50 OR MORE	1.00 OR MORE		
PACIFIC																										
EAST OF 180TH MERIDIAN																										
ATU'U FALEASAO VILLAGE														12.31		1.92	9		0		20	10	3			
R	JOHNSTON IS WSO AP	82.4	74.9	78.7	1.1	85	19	72	15	0	0	0	0	4.52	1.13	3.38	1	.0	0		3	1	1			
MIDWAY SAND ISLAND														11.22		2.45	23	.0	0		14	7	4			
R	MALAELOA	85.8	75.2	80.5	.5	91	8	68	16	3	0	0	0	8.41	- 6.44	2.21	9	.0	0		12	4	3			
WESTERN PACIFIC ISL. NORTH OF 12 N																										
AGAT														6.28		1.38	9	.0	0		11	6	2			
	ANDERSEN AFB GUAM	82.7	76.9	79.8	.5	84	31+	72	27+	0	0	0	0	5.59	-.27	2.00	19	.0	0		9	5	1			
	CLARK AFB LUZON	84.6	70.5	77.6	-.9	88	21	64	15	0	0	0	0			.67	22	.0	0		2	2	0			
DEDEO														9.77		2.55	21	.0	0		17	9	3			
GUAM NAS																										
R	GUAM WSO	83.7	72.2	78.0	-.5	88	13	64	28	0	0	0	0	5.67	-.18	.82	21	.0	0		11	5	0			
	INARAJAN AG STN													9.18		1.99	21	.0	0		15	8	3			
	INARAJAN - NASA	87.4	72.6M	80.0M		89	24+	65	5	0	0	0	0	8.04		1.98	21	.0	0		13	6	2			
MANGILAO														2.52		1.00	7	.0	0		4	2	1			
SAIPAN LORAN																										
	UMATAC													11.12		2.00	11+	.0	0		11	7	6			
R	WAKE ISLAND WSO AP	82.5	74.5	78.5	-.1	87	31	70	4+	0	0	0	0	1.17	-.56	.41	18	.0	0		3	0	0			
	YIGO													6.32		1.50	8	.0	0		10	6	2			
CAROLINE AND MARSHALL ISLANDS																										
ENEWETAK																										
	FALALOP I ULITHI ATOLL																									
R	KAPINGAMARANGI ATOLL	87.9	75.1	81.5	.2	90	17+	72	24+	4	0	0	0	11.57	- 1.30	3.54	23	.0	0		13	5	5			
R	KOROR WSO	86.7	77.2	82.0	.4	88	28+	71	24	0	0	0	0	8.27	-.96	1.94	13	.0	0		19	4	2			
KWAJALEIN MISSILE RGN																										
	LELE I KOSRAE																									
R	MAJURO WSO AP	86.5	76.9	81.7	.6	90	4	74	28+	1	0	0	0	7.10	- 4.78	1.31	28	.0	0		14	8	1			
	METALANIM	86.3	70.6	78.5		90	19	66	8+	1	0	0	0	17.80		5.97	2	.0	0		18	8	4			
R	NGASANG-BABELTHUAP	88.4	73.7	81.1	.5	93	9	70	26+	13	0	0	0	19.58	3.63	5.97	2	.0	0		20	9	6			
	PONAPE WSO																									
	SATAHAN ATOLL																									
R	TRUK MOEN I WSO AP	86.2	76.8	81.5	.2	89	9+	70	6+	0	0	0	0	7.36	- 6.56	2.09	5	.0	0		13	4	2			
R	WOLEAI ATOLL	86.9	73.9	80.4	-.6	89	15+	71	24+	0	0	0	0	13.40	3.52	3.02	23	.0	0		16	6	5			
	YAP WSO AP																									

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DAILY PRECIPITATION

HAWAII AND PACIFIC
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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
PAUHAU 217	6.50			.85	.09	.16	.05		.55	.02			.09						.72					.04	17	1.27		1.33	01	1.14	01			
PAUULO 221	10.46			2.15	.22	.46	.30		.89	.18									.65					14	55	2.21	06	1.45	05	1.14	01			
PAHALA 21	1.21			1.19						.33			.01	.01					.33													.31		
PAHUA 65	9.63			1.15	.24	06			.35			3.31	.01	.01					.30			03	.15	.15			30		25	53	20		06	
PAPAIOU 144.1	8.17			.51	.02	.04	.01		.51			2.97	.15		.40	16			.47							20		15	51	01			2.21	
PAPAIOU MAUKA 140.1	13.67			1.31								4.15																					4.54	
PIIHONUA 89	8.20																																	
PUUKOHOLA HEIAU 98.1	.94					.01								.07																				
PUU LENUA 73	.23									.05																		.79	.02					
PUUKOHOLA-O-HONAUNAU	.49			.01	.45																												.23	
SOUTH KONA 2.31	1.38				.57				.36			10	21	.02																	.12			
UPOLU POINT USCG 159.2	3.61		.01	.22	.05			.01	.02					.33	.08																.11	.04		
WATAKEA SCD 88.2	6.58																																	
WAIKALOA-BOIS CAS 95.8	2.16	.02	.26	.94	.19		.10	.22	1.02				01	2	15																15	16	95	32

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DAILY PRECIPITATION

HAWAII AND PACIFIC
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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
ATONG																																		
FALEASAO VILLAGE		12.31	84	14	.28	.45	53	1.17																										
JOHNSON IS WSO AP	R	4.52	3.38		.49	T	.07		.01	86	1.92	.25	.51	.11	.38	.06					.06	.01	T		.70	.48	.94	.24	.16	.85	1.14	.15	.08	
MIDWAY SAND ISLAND																																		
MALAELO		11.22	.81	T		.17	.10			1.55	2.02	.35	.12												.05	2.45	.35	1.07	.39	.68	.06	.63	.42	
PAGO PAGO WSO AP	R	8.41		.06	.14	.05	.07		.05	2.21	1.01	.46	.20	.08		.04									.14	1.68	.14	.49	.06	.07	.83	.30	T	.33
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
AGAT		6.28							.50	.60	1.38		.45	.30		.15	.60					1.20	.10	.80							.20			
ANDERSEN AFB GUAM		5.59		.08	T	T	.54		.61	.51	.05	T		.03		.15	.20	.20	.06	T	.08	2.00	.25	.64		.12	.06	.06	.07	.02	T	.01		
CLARK AFB LUZON		9.77		.10	.13		.18	1.15	1.25		.64	.01				.50	.60	.70				.70	.70	2.55		.10	.10		.12	.10	.03	.10	.01	
DEDEO																																		
GUAM NAS																																		
GUAM WSO	R	5.67		.13	.02	.16	.80	.71	.65	.26	.07	.03	.01		.13	.08	.05	.06	.02	.34	.81	.27	.82			.05	.09	.02	.03	.15	T	.04		
INARAJAN AG STN		9.18			.38	.40	.14	.11			1.03	.51	.50		.13	.70			.25		.90	1.23	1.99							.26	.20	.22	.65	
INARAJAN - NASA		8.04			.58		.22	.32	.60	.40	.88	.01	.02		.52	.01					1.65	1.98				.03	.01	.02	.06	.01	.13	.20	.05	
MANGILAO		2.52					.40	1.00									.01				.02	.92				.03	.10		.01		.03			
SATPAN LORAN																																		
UMATAC		11.12			.31	.72	1.28	2.00	1.11	1.50	2.00	1.15		.09	.05	.03	T		.21	.36	T				.15	.09	.02	.06	.01	.13	.20	.02	T	
WAKE ISLAND WSO AP	R	1.17	.01	.02		.02	.01	1.50	.30					.03	.13	.41			.35	.50	.04	T			.02	.06	.04	.06	.23	T	.05	.25	.01	
TIGO		6.32			.90	.55															1.23						.14	.60						
CAROLINE AND MARSHALL ISLANDS																																		
ENENETAK																																		
FALALOP I. ULITHI ATOLL																																		
KAPINGAMARANGI ATOLL																																		
KOROR WSO	R	11.57		.41		.07	1.29	.01	T	T	.12		.04		.05	T	T	1.25	.10	.44	.15	.04	.01		.10	3.54	1.94	.01	.06	.03	.03	.14	.46	1.37
KWAJALEIN MISSILE RGN	R	8.27	.12	.22	.47	.81	10	.28	.02	.15	T			.13	.58	.20	1.94	.06	T	.33	T	.02	.19	.02	T	.30	.28	1.15		.05	.40	.21	.14	
LELE I. KOSRAE				.72	.04	.15	.16	.10	.20	.01	.31			.30	.03		.78		.05	.29	.07			.01	.07	.68	.69	.58	T	.04	.02	1.31	.49	T
MAJURO WSO AP	R	7.10				.83	.36	.03	.07	.01	.01		.30	.03	.43		.16	.19	.02		.08	.02	.01	.17	.45	.67	1.94	.77	.80	.25	.14	.21	.01	.18
METALANIH		17.80	2.15	5.97	.88																													
NGASANG-BABELTHUAP	R	19.58	1.48	5.97	.22	1.94	.11	.29		T		.01	.75	.23			.14		.01	T	.47	.66		1.03	2.37	1.91	.55		.21	.24	.38	.33	.28	
PONAPE WSO																																		
SATAMAN ATOLL																																		
TRUK MOEN I. WSO AP	R	7.36	.18	T	1.26	.01	2.09	.50				.04	T	.12	.38	.06	.06	.36	T		.04	.38	.36		.09	.63			.33	T	T	.20	.27	
WOLEAI ATOLL																																		
YAP WSO AP	R	13.40	.02	T		T	.04	.35	T	.25	.54	.27	T	.01			.08	.15	2.85	1.79	.27	.27		1.27	3.02	1.63		.11	.12	.12	.01	.05	.18	

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN			57 45	55 49	60 47	65 40	68 40	66 49	67 55	68 54	68 44	67 46	67 50	63 58	64 57	64 58	71 55	66 50	67 47	66 46	65 43	64 40	63 44	65 53		60 52	66 53	67 44	64 43	63 42	64 53	64.6 48.5
KILAUEA POINT 1133	MAX MIN	82 73	84 70	74 70	75 66	73 65	76 66	76 68	80 71	83 70	77 69	78 81	68 68	85 71	85 73	84 71	84 72	84 70		86 69				83 71	78 65	75 67	76 69		81 67	74 66	76 65	79.5 68.9	
LIHUE WSO AP 1020.1	MAX MIN	84 68	78 72	76 69	76 68	74 65	78 65	78 66	81 64	81 66	78 66	80 66	82 65	81 65	82 70	83 67	85 70	78 66	79 64	81 66	80 66	81 69	79 69	78 67	78 67	79 66	79 66	78 63	78 63	76 64	78 63	79.2 66.5	
NIU RIDGE 1035	MAX MIN	85 66	80 62	84 58	80 60	76 55	79 56	80 57	80 64	81 66	82 63	81 61	82 61	81 66	79 69	77 66	78 68	79 65	80 62	83 62	84 61	80 60	80 63	83 59	84 58	80 58	83 58	77 59	81 58	80 58	78 62	74 62	80.2 61.4
WAIHAI LOWER 1054	MAX MIN	79 63	77 60	78 64	76 60	76 59	74 56	76 56	79 60	80 60	78 62	80 58	80 57	79 59	76 65	80 60	80 64	80 59	79 65	79 58	79 63	79 64	79 64	76 63	79 60	76 59	76 60	78 55	76 60	79 63	79 62	77.9 60.6	
WAIIMEA 947	MAX MIN	83 70	86 70	82 62	83 62	79 59	79 60	80 63	84 67	82 66	82 66	82 60	82 67	82 69	85 70	82 69	82 68	82 66	81 66	81 67	83 64	82 65	85 64	84 66	84 64	82 63	82 61	82 60	80 61	80 60	82 62	83 61	82.2 64.5
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN				77 65	74 61	77 61	80 65	85 65		84 61	82 69	83 67	83 68			84 69	84 64	83 64	85 65	84 66				83 68	78 64	79 64	79 64				79 67	67
B Y U LAIE 903.1	MAX MIN	81 68	81 70	75 67	76 66	75 62	75 61	78 67	79 65	80 70	76 63	79 67	79 65	83 65	86 65	84 65	85 66	85 70	78 62	80 64	81 64	81 67	81 67	78 69	78 64	77 67	76 69	75 64	77 67	76 69	75 68	70 66	77.8 66.3
HONOLULU OBSERV 702.2	MAX MIN	85 64	89 70	81 67	81 61	79 60	79 59	85 64	83 63	83 68	83 69	83 65	87 64	87 64	83 67	84 66	85 68	82 61	81 69	85 64	85 62	85 63	87 63	85 68	85 67	80 63	80 63	85 63	83 64	84 66	80 64	83 66	83.4 64.7
HONOLULU WSO AP 703	MAX MIN	89 69	77 69	80 70	78 63	80 62	84 61	87 66	83 65	82 71	83 72	85 69	83 67	84 67	84 72	83 69	84 72	81 68	82 63	87 65	87 67	85 66	85 73	85 72	81 66	80 66	82 65	83 69	82 67	80 69	80 67	81 67	82.8 67.7
KANEHOE MAUKA 781	MAX MIN	85 72	83 71	73 69	77 65	75 64	75 65	73 68	78 70	83 70	81 71	79 71	81 70	81 71	81 73	78 73	80 74	81 70	82 68	82 67	82 69	80 72	79 68	78 67	75 65	77 66	78 68	77 69	77 66	70 67	73 68	78.4 69.0	
MANOA LYON ARBORETUM	MAX MIN	82 66	84 69	71 65	72 62	68 61	74 62	78 66	81 67	85 68	79 68	82 69	80 66	84 67	79 67	78 69	81 68	82 63	82 63	85 63	82 62	83 70	83 69	77 66	77 66	72 60	76 64	78 65	78 66	78 66	72 64	76 64	78.7 65.7
OPAULA 870	MAX MIN	81 65	72 65	84 64	84 61	84 60	84 64	84 63	81 63	81 64	84 63	84 66	82 66	82 67	79 66	81 66	84 66	82 57	83 61	84 62	85 65	85 62	85 64	78 61	77 62	85 64	74 61	72 62	71 62	71 64	75 63	73.7 63.8	
PUU MANAWAHUA 725.6	MAX MIN	84 65	74 61	72 57	71 57	70 58	77 64	79 64	80 65	75 64	74 63	78 64	78 65	74 66	73 66	76 67	76 61	78 62	79 63	78 64	79 64	78 62	78 65	76 62	75 58	72 62	72 62	76 62	75 62	74 61	74 59	71.1 62.6	
WAIALEE 896.3	MAX MIN																																
WAIALUA 847	MAX MIN	88 66	86 64	74 68	78 65	77 61	69 56	80 61	82 64	84 66	84 69	80 63	86 63	85 62	87 63	82 62	84 66	84 58	77 58	80 61	85 60	84 58	84 58	82 64	82 60	76 58	76 62	78 52	80 62	74 62	72 64	78 64	80.5 62.5
WAIKIKI 717.2	MAX MIN	88 66	88 71	79 67	82 63	77 58	79 59	82 66	87 66	86 69	81 67	86 66	86 66	84 68	84 73	84 70	84 73	85 69	86 64	86 64	86 65	86 64	87 64	86 65	86 68	85 70	83 64	83 63	83 69	82 67	81 65	82 65	83.6 66.5
WAIMANALO EXP FM 795.1	MAX MIN	85 66	82 66	75 60	79 63	77 61	75 60	75 66	81 69	84 70	79 70	80 67	81 67	83 66	79 67	80 67	82 64	82 68	79 64	82 65	81 65	80 65	82 63	81 64	80 68	77 68	79 69	76 63	77 66	73 68	74 64	74.7 66.7	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	78 68			78 63	77 59	76 67	80 63	84 63	86 62	80 66	83 64	84 64	84 63	82 64	82 68	80 66	80 69	80 65	85 65	84 60	79 63	80 70	82 68	82 68	81 60	78 62	78 66	78 64	78 65	72 64	78 64	80.3 64.6
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	82 64	82 68	73 62	72 60	70 58	73 62	79 66	80 62	80 67	77 65	79 63	78 62	77 61	78 64	77 67	78 66	78 66	77 63	78 58	82 60	80 63	78 62	78 65	79 58	78 58	73 61	75 65	76 63	78 65	75 63	75 63	77.3 62.9
LANAI CITY 672	MAX MIN	79 63		76 60	69 57	67 58	75 59	78 62	78 61	74 65	76 62	81 62	81 61	76 62	76 64	76 63	74 62	76 63	81 64	78 59	76 60	82 65	74 61	73 64	76 59		75 56	70 62	76 63	61 60	60 64	78 66	75.9 61.3
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	69 43	65 48	57 42	60 38	55 36	51 40	59 42	59 42	62 44	61 41	60 40	63 42	62 40	62 41	60 45	65 51	68 49	64 40	61 43	56 36	60 37	71 49	73 44	65 42	61 42	56 39	60 44	66 41	63 39	57 37	58 38	61.6 41.8
HANA AIRPORT 355	MAX MIN	83 75	83 68	75 69	79 67	75 64	74 70	81 74	78 70	79 79	83 68	84 68	80 69	82 69	82 65	85 63	84 66	84 62	82 67	81 70	82 70	82 71	92 73	83 67	81 68		80 68	78 66	77 66	80 67	78 66	78 63	80.5 68.2
KAANAPALI AP 453.1	MAX MIN	87 72	88 69	79 65	77 62	75 60	79 59	81 61	84 67	82 66	83 66	85 63	84 65	84 65	82 67	84 72	83 68	81 62	81 61	85 65	84 65	83 64	83 65	83 64		83 61	79 65	81 60	81 67	75 63	81 63	82.1 64.6	
KAHULUI WSO 398 AP	MAX MIN	87 73	80 71	80 60	75 67	78 59	85 62	85 66	81 68	87 73	86 66	85 68	86 67	84 68	86 73	85 74	85 62	82 63	85 64	87 62	86 62	86 64	84 64	84 69	78 65	80 68	84 60	84 65	76 65	78 68	81 68	81 68	83.0 67.8
KAILUA 446	MAX MIN				72 62	74 62	73 61	75 65	80 69	80 68	74 65	78 66	78 66	78 64	79 63	80 64	79 66	74 64	79 63	79 66	79 66	77 63	78 68	77 69			77 60	78 61	77 62				77.1 64.8
KEAWAKAPU BEACH 260.2	MAX MIN	86 69	88 64	83 66	82 66	80 59	83 61	85 63	85 65	83 71	85 67	86 65	85 65	83 67	83 69	83 66	84 71	86 70	84 61	85 60	84 63	85 62	86 65	88 61		85 62	86 62	88 59	85 65	86 62	81 66	82 65	84.0 64.5
KULA BRANCH STN 324.5	MAX MIN	75																															

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STATION		DAY OF MONTH																															AVERAGE	
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HAWAII																																		
KULA HOSPITAL 267	MAX MIN	77 54	75 52	72 51	74 50	66 51	70 51	74 53	72 59	72 60	76 59	74 57	68 55	69 56	73 59	72 58	74 56	73 57	72 56	73 57	72 56	75 56	72 55	75 54	71 53	66 54	73 54	69 54	70 55	69 55	69 55	71.9 55.1		
LAHAINA 361	MAX MIN	88 69	84 67	82 69	79 65	81 57	84 58	86 66	84 67	85 71	86 68	85 64	85 64	85 65	86 67	86 73	86 73	85 65	85 64	87 63	86 65	85 61	86 66	87 68	84 65	84 65	85 60	85 61	86 61	85 63	87 63	83 62	84.9 64.9	
ISLAND OF HAWAII																																		
HAWAII VOLCONS NP HQ 54	MAX MIN	74 55	65 52	70 51	70 49	69 47	65 47	70 53	74 60	66 53	71 50	74 50	73 49	74 47	72 52	73 49	77 50	78 52	77 53	74 49	74 48	74 48	74 52	70 53	63 50			69 49	68 52	70 47	71 51	65 55	68 55	71.1 50.9
HILO WSO AP 87	MAX MIN	81 68	80 64	78 69	76 64	78 64	81 63	81 67	83 70	85 63	84 64	81 63	83 65	82 63	86 64	86 60	82 63	85 66	82 64	85 58	82 63	81 68	83 66	80 65	81 68	73 64	78 65	80 64	80 61	77 66	78 67	81 58	81.1 64.4	
KAINALIU 73.2	MAX MIN	83 64	79 65	79 63	76 61	72 61	73 59	79 64	78 64	80 64	81 64	80 62	79 61	80 61	80 61	79 62	80 60	81 60	79 61	78 61	80 61	80 61	80 60	79 61	80 60	78 62	79 61	79 60	83 60	80 60	78 60	79.1 61.5		
KAMUELA 192.2	MAX MIN	81 53	73 55	72 58	64 53	64 54	67 50	74 50	78 55	75 54	78 54	78 55	74 52	75 55	73 56	73 50	76 52	74 51	77 51	75 56	76 48	78 47	72 59	76 58	67 56	65 57	70 60	67 56	71 52	73 53	70 54	74 54	72.9 53.9	
KAPOHO BEACH 93.11	MAX MIN	88 71	82 69	82 70	80 63	77 64	83 64	84 68	76 70	82 70	85 69	87 67	81 66	87 65	83 67	83 64	86 69	88 70	85 65	85 67	86 68	86 69	81 69	81 72	85 67	73 64	78 67	78 65	81 68	82 69	78 68	82.8 67.4		
KONA (KAILUA) 68.3	MAX MIN																																	
KULANI CAMP 79	MAX MIN	71 46	65 42	71 46	63 43	60 47	65 43	69 43	68 46	68 46	68 46	68 46	69 44	68 45	68 44	69 44	74 40	70 45	68 47	56 42	67 45	66 42	64 45	58 42	62 44	62 44	63 44	64 44	65 44	65 44	65 45	66.2 46.2		
MAUNA KEA OBS 111.2	MAX MIN	53 25	45 33	46 32	41 26	42 25	39 26	42 24	43 30	43 28	45 28	44 25	40 26	42 27	39 25	44 24	44 28	42 27	44 30	55 35	50 38	50 39	54 35	53 35			50 20	50 30	51 31	52 31	46.1 29.2			
MAUNA LOA SLOPE OBS	MAX MIN	54 36	56 39	57 37	47 32	53 32	52 35	53 35	54 37	49 34	48 34	54 36	50 34	58 37	56 39	58 41	61 39	58 40	55 38	56 39	62 40	60 45	61 40	60 36	53 33	44 31	44 31	51 33	53 37	51 34	50 32	46 33	53.7 36.4	
MOUNTAIN VIEW 91	MAX MIN																																	
NAALEHU 14	MAX MIN	77 67	71 60	81 60	81 62	77 61	75 63	79 65	78 66	77 65	80 66	80 63	80 64	80 62	80 60	80 61	80 62	89 61	82 65	80 63	80 65	79 67	78 66	77 63	80 63	75 63	79 60	80 61	79 59	77 60	73 63	75 62	78.7 62.9	
DOKALA 223	MAX MIN	80 67	80 67	80 65	76 62	73 62	71 62	78 64	78 67	78 68	82 66	81 67	78 65	80 65	80 66	80 65	80 65	81 65	83 66	80 68	85 68	79 67	78 69	75 66	78 62	72 62	78 61	76 65	78 65	79 70	77 65	78.5 65.4		
OPIHIHALE 2 24.1	MAX MIN	79 60	81 61	77 59	79 57	73 54	79 55	81 59	76 59	81 58	81 57	78 57	80 57	81 55	80 55	82 57	81 57	80 58	80 57	81 55	81 54	82 55	80 57	81 57	79 58	81 56	81 55	80 55	80 55	78 55	80 59	79.8 56.7		
PUUKOHOLA HEIAU 98.1	MAX MIN	88 67	87 67	89 67	86 65	84 64	81 65	84 65	86 65	85 69	88 68	86 69	91 69	84 68	85 68	85 66	85 66	86 69	85 67	84 64	85 66	85 66	86 63	88 59	90 64	82 63	86 66	86 66	85 66	84 65	83 66	85.7 66.0		
SOUTH KONA 2.31	MAX MIN	77 58	72 54	73 56	74 56	69 56	72 52	77 55	75 58	77 61	75 57	69 56	72 56	75 54	75 59	78 54	77 62	79 55	77 56	73 54	75 57	72 56	75 57	78 56	70 51	72 52	74 53	76 54	75 52	77 52	72 55	74.3 55.4		
UPOLU POINT USCG 159.2	MAX MIN	85 72	81 70	80 61	78 64	76 64	75 66	81 69	81 70	83 70	81 69	85 69	80 69	83 69	83 71	83 68	87 69	82 69	83 69	83 61	84 69	82 69	88 67	83 68	83 67	80 62	77 62	78 67	79 66	79 66	79 67	83 66	81.4 67.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
DECEMBER 1979

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	80 74	84 79	80 73	83 76	80 73	82 75	84 75	82 76	79 75	80 74	84 74	84 73	84 74	82 73	82 72	83 74	83 74	84 76	85 76	84 79	83 74	82 74	83 74	83 77	82 76	81 73	82 77	82 75	82 75	81 75	83 76	82.4 74.9	
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	90 74	90 74	89 77	86 74	86 76	86 79	87 76	91 75	83 76	86 76	84 77	84 76	85 71	85 70	85 72	85 68	86 70	85 77	85 78	86 78	86 80	89 77	81 75	80 74	84 73	85 76	86 77	85 74	87 78	87 76	86 76	85.8 75.2	
WESTERN PACIFIC ISL, NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	84 78	83 78	84 79	84 79	82 78	81 75	80 77	82 77	84 79	84 79	84 79	84 79	84 77	83 75	82 75	83 78	82 79	82 76	79 72	80 76	82 75	83 78	84 78	81 78	83 74	82 76	82 72	83 76	84 77	84 77	84 78	82.7 76.9	
CLARK AFB LUZON	MAX MIN	86 73	86 72	82 70	84 68	86 72	86 72	84 73	86 72	84 70	84 68	86 68	84 70	82 68	84 66	84 64	84 66	84 70	84 70	84 70	88 68	89 73	88 73	84 72	86 73	84 72	82 73	82 73	84 73	86 73	86 72	86 72	84.6 70.5	
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	84 65	86 65	86 74	84 75	83 75	82 74	80 74	83 73	85 74	85 75	85 73	88 69	85 72	85 68	84 74	83 75	82 76	82 76	81 70	79 73	83 72	84 75	84 76	83 74	83 73	82 72	84 70	84 64	84 70	84 71	84 71	83.7 72.2	
INARAJAN - NASA	MAX MIN	86 70	87 70	87 70	87 68	87 65	87 67	87 67	88 73	88 79	87 78	87 76	87 76	87 75	87 74	89 72	89 72	89 73	89 75	89 70	89 70	89 70	89 70	88 71	88 72	89 72	88 75	88 74	86 73	85 73	86 73	85 74	85 75	87.4 72.6
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	78 74	81 70	79 70	82 70	81 72	82 74	80 74	82 75	82 73	83 76	81 74	81 76	81 73	82 72	82 76	85 76	86 75	84 74	84 75	82 73	80 73	79 73	81 71	81 71	85 77	86 80	86 79	85 78	84 78	86 79	87 77	82.5 74.5	
CAROLINE AND MARSHALL ISLANDS																																		
ENEWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 77	89 75	90 74	89 76	90 77	89 76	89 76	88 76	86 76	87 75	89 78	90 77	89 76	88 75	89 75	87 73	90 74	87 75	87 74	88 75	89 76	84 75	84 72	85 72	88 74	88 75	88 74	88 74	88 74	88 74	85 74	87.9 75.1	
KWAJALEIN MISSILE RGN	MAX MIN	87 79	85 77	86 75	88 77	85 79	87 77	88 80	87 78	87 81	87 78	87 75	87 78	84 75	87 76	87 81	88 77	87 79	87 79	88 79	87 80	88 79	88 76	82 76	87 71	87 75	88 77	87 77	88 77	83 75	86 75	87 75	86.7 77.2	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	88 79	85 75	86 77	90 77	88 79	87 77	87 77	88 78	85 76	87 76	86 77	86 79	84 75	87 80	86 76	87 76	85 75	87 76	88 79	87 80	87 78	82 74	87 77	83 74	88 77	88 77	87 77	84 74	86 75	87 76	87 80	86.5 76.9	
METALANIM	MAX MIN	84 70	80 70	83 71	88 74	85 72	88 70	88 66	89 66	89 69	87 72	88 75	87 71	83 71	89 71	89 70	88 68	88 69	89 70	90 70	86 73	87 71	85 69	83 70	85 71	85 70	88 67	87 72	78 73	87 70	87 75	85 74	86.3 70.6	
PONAPE WSO	MAX MIN	86 71	80 73	84 76	84 73	89 75	89 72	92 70	91 70	93 73	90 75	91 78	89 75	84 74	91 73	90 72	90 72	90 72	92 74	92 74	89 75	90 74	85 73	82 75	85 75	88 71	89 70	90 75	89 75	87 76	89 76	89 77	88.4 73.7	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	88 77	87 77	83 73	86 79	82 70	83 70	89 78	89 77	89 77	87 79	87 77	87 78	82 76	87 75	86 77	88 78	85 76	88 76	84 76	87 75	86 76	86 78	85 77	86 79	86 80	87 78	87 78	86 79	86 80	87 78	86 76	86.2 76.8	
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	88 76	88 73	88 72	88 73	89 74	88 74	88 74	86 78	83 71	87 74	88 73	89 76	88 73	87 74	89 72	88 74	88 74	86 72	81 73	88 75	87 75	86 74	87 72	80 71	86 76	87 74	85 73	86 74	88 76	88 77	88 75	86.9 73.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
DECEMBER 1979

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
LIHUE WSO AP 1020.1		EVAP WIND MAX MIN	.22 55 81 59	.11 127 82 62	.30 288 68 59	.20 246 81 58	.01 165 71 56	.12 75 72 55	- 91 75 56	.11 66 79 60	.21 57 79 60	.34 44 76 62	.09 81 78 60	.19 74 81 57	.21 93 81 58	.09 169 73 62	.15 111 82 63	.15 153 77 68	.17 94 80 62	.25 80 80 56	.15 62 79 56	.06 70 80 59	.19 79 81 59	.26 113 80 62	.01 196 72 63	.39 232 75 62	.20 200 76 61	.22 181 71 61	.16 92 77 57	.26 86 76 56	.16 106 76 56	.18 82 72 60	.07 3739 76.9 59.5	
ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2		EVAP WIND MAX MIN	.55 17 88 65	.45 25 88 68	.34 47 84 63	.31 49 82 62	.14 15 76 60	.30 14 78 60	.45 12 85 61	.39 20 87 63	.39 17 88 66	.18 19 85 70	.17 9 87 66	.34 13 89 66	.34 18 86 67	.32 58 86 68	.34 37 89 68	.38 54 88 68	.39 38 89 69	.33 15 89 63	.30 27 85 63	.30 14 88 62	.30 13 87 64	.30 12 83 64	.46 27 84 65	.31 31 85 66	.24 17 82 65	.20 16 85 63	.30 21 85 63	.15 15 83 63	.23 21 81 65	.30 24 83 64	.24 39 85 64	9.74 754 85.2 64.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
DECEMBER 1979

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
* * *																																	
EAST OF 180TH																																	
MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	-	-	-	.49	.26	.25	.26	.20	.24	.06	.27	.16	.19	.15	.19	.25	.20	.29	.26	.17	.17	.21	.28	.31	.30	.14	.30	.32	.29	.08	.22	7,218
	WIND	245	251	237	266	178	173	111	157	138	163	83	78	34	23	25	57	45	103	121	246	234	226	258	212	175	200	229	218	223	155	.22	5000
PAGO PAGO WSO AP	EVAP	.21	.19	.30	.20	.36	.38	.34	.27	.27	-	-	-	.31	1	.51	.31	.26	.34	.44	.36	1	.56	.03	.06	.33	.32	-	-	.26	.26	8,528	
	WIND	39	41	80	173	204	232	126	65	165	241	171	46	47	1	.78	49	64	111	193	167	1	279	157	60	31	152	132	38	79	70	66	3356
	MAX	98	98	96	95	93	91	93	100	87	86	87	88	90	89	89	88	98	94	87	95	89	93	84	83	87	95	92	99	92	98	100	92.1
	MIN	74	74	74	70	69	72	73	75	75	74	74	73	73	67	69	65	68	64	71	68	74	74	70	72	73	75	74	73	75	76	76	72.1
* * *																																	
WESTERN PACIFIC ISL.																																	
NORTH OF 12 N																																	
GUAM WSMO	EVAP	.30	.24	.19	.17	.13	.14	.08	.07	.29	.32	.24	.19	.09	.22	.15	.27	.22	.20	.13	.00	.37	.33	.31	.16	.26	.28	.16	.21	.18	.25	.21	6,36
	WIND	31	21	27	108	131	107	133	225	180	148	109	56	29	25	30	70	98	136	127	158	203	200	199	162	129	123	47	66	97	133	147	3455
	MAX	88	91	89	85	81	82	76	82	86	86	87	89	89	92	88	87	85	82	89	78	81	82	83	85	83	84	86	88	88	86	86	85.3
	MIN	68	67	69	70	70	76	71	72	71	72	72	70	69	72	69	70	70	70	68	70	69	68	66	66	67	68	67	69	70	70	70	69.5
* * *																																	
CAROLINE AND																																	
MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	.29	.12	.19	.19	.23	.22	.15	.15	.17	.03	.22	.26	.23	.21	.22	.18	.18	-	.15	.15	.48	.35	-	.18	.20	.13	.18	.20	.19	.11	6,118	
	WIND	28	59	36	39	36	35	44	109	172	73	82	48	29	37	36	55	60	78	54	88	47	103	103	68	95	60	59	75	71	83	73	2035
	MAX	90	91	94	85	92	89	87	84	79	89	94	96	95	95	96	94	88	85	74	94	94	94	84	82	89	91	91	92	88	90	89	89.5
	MIN	77	72	72	74	74	75	74	74	73	74	75	75	75	75	75	74	73	73	72	74	74	73	73	70	71	71	70	73	72	74	73	73.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA		22 08	159 40	3600		7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			VALERIE BYRD
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSFO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION

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STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS CHARLES COOKE
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240				C	
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB CC DEPT PKS RECREATION
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAELUA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALEE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL U H WAIMANALO EXP FARM
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALEE 896.3	9190	01	KOOLAULO		21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		C	
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330				C	
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A			C	
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAKAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAAU INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6545	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150	VAR	VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAINA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142		0905	02 S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03 KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02 HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54		1303	02 KA'U		19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01 N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6		1487	02 HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R	1492	02 S HILO		19 43	155 04	36	MID	MID			NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04 N KONA		19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HONAUNAU 27		1665	04 S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02 N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02 S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A	2047	04 N KONA		19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04 N KONA		19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04 N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAHALOA 29	A	2327	04 SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8		2512	03 KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01 HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04 KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04 N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04 HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02 S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03 KA'U		19 02	155 40	1375		WI			KAWAIHAE RANCH
KAMUELA 192.2		3077	01 S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03 KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02 HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02 PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01 HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02 PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03 KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04 S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02 HAMAKUA		19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A	4625	03 KA'U		19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KOHALA MISSION 175.1		4680	01 N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01 HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04 N KONA		19 39	156 01	30	VAR				FAA
KONA VILLAGE 93.8		4765	04 N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01 HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01 HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01 HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02 S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05 N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02 S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILLO FLD OFF 191.1		5260	01 S KOHALA		20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHU 68.2		5330	04 N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103		5761	02 HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03 KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02 HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05 HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01 N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03 KA'U		19 11	155 30	600		MO			KAWAIHAE RANCH
MOUNTAIN VIEW 91		6552	02 PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03 KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A	6697	04 S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02 N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04 S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02 PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHUA 217		7204	01 HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUULO 221		7312	01 HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03 KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02 PUNA		19 30	154 57	670		6A			PUN SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02 PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIKOU 144.1		7711	02 S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	A	7721	02 S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02 S HILO		19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A	8063	02 HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04 N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH

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ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520				C	PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKALOA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1979

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

NOTE

LATE REPORTS THAT NORMALLY APPEAR IN THE DECEMBER 1979 PUBLICATION
WILL BE PUBLISHED IN THE JUNE 1980 BULLETIN.

CORRECTIONS

HAWAII & PACIFIC

DATE	TABLE	DIVISION	STATION	CORRECTION
Annual 1978	Total Precipitation and Departures from normal	All Divisions		Delete all departures from normal from all annual island totals.
March 1979	Daily Precipitation	Island of Maui	Polipoli Springs 267.2	Total, *. Amount on 1st-31st, *.
May 1979	Daily Precipitation	Island of Maui	Polipoli Springs 267.2	Total, *. Amount on 1st-31st, *.

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

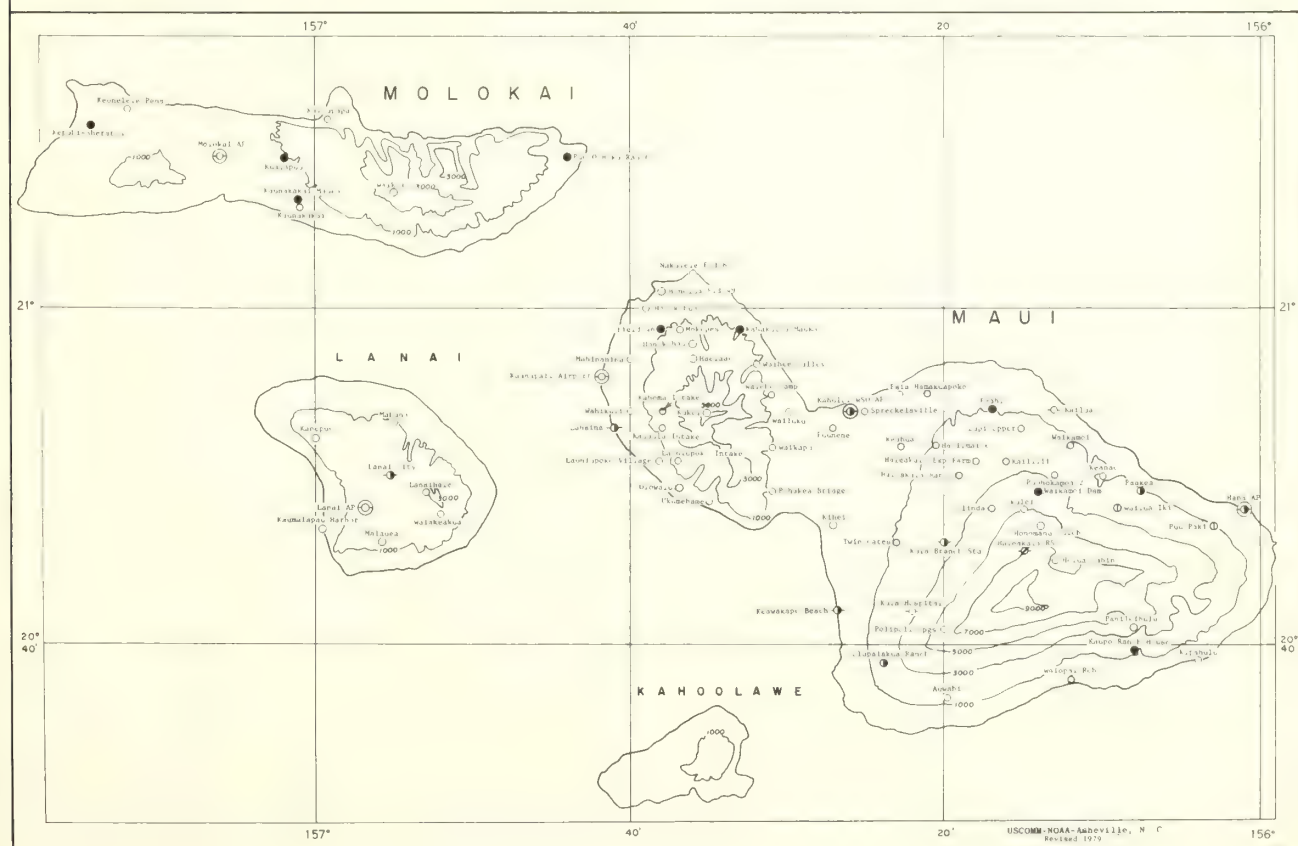
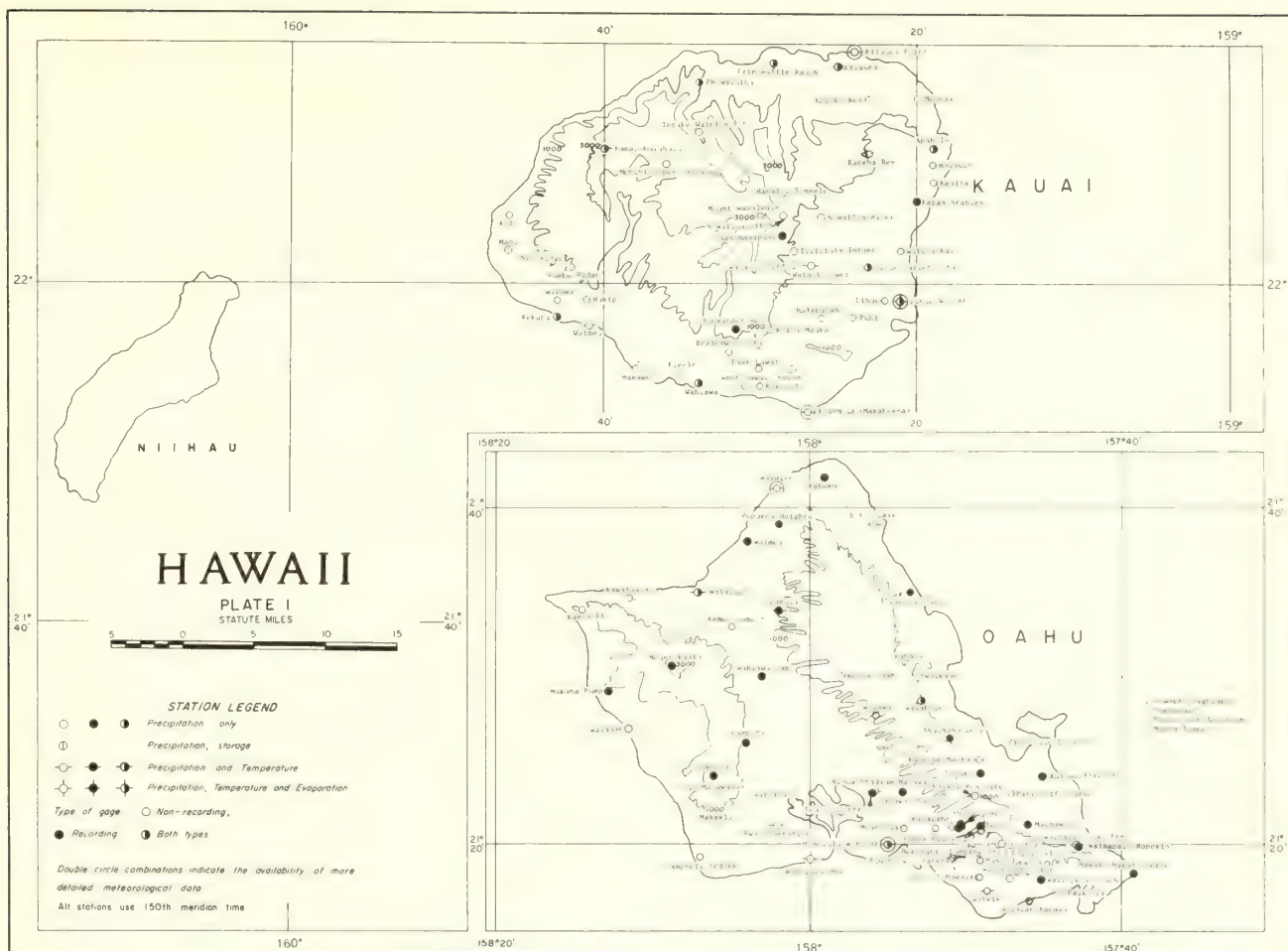
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

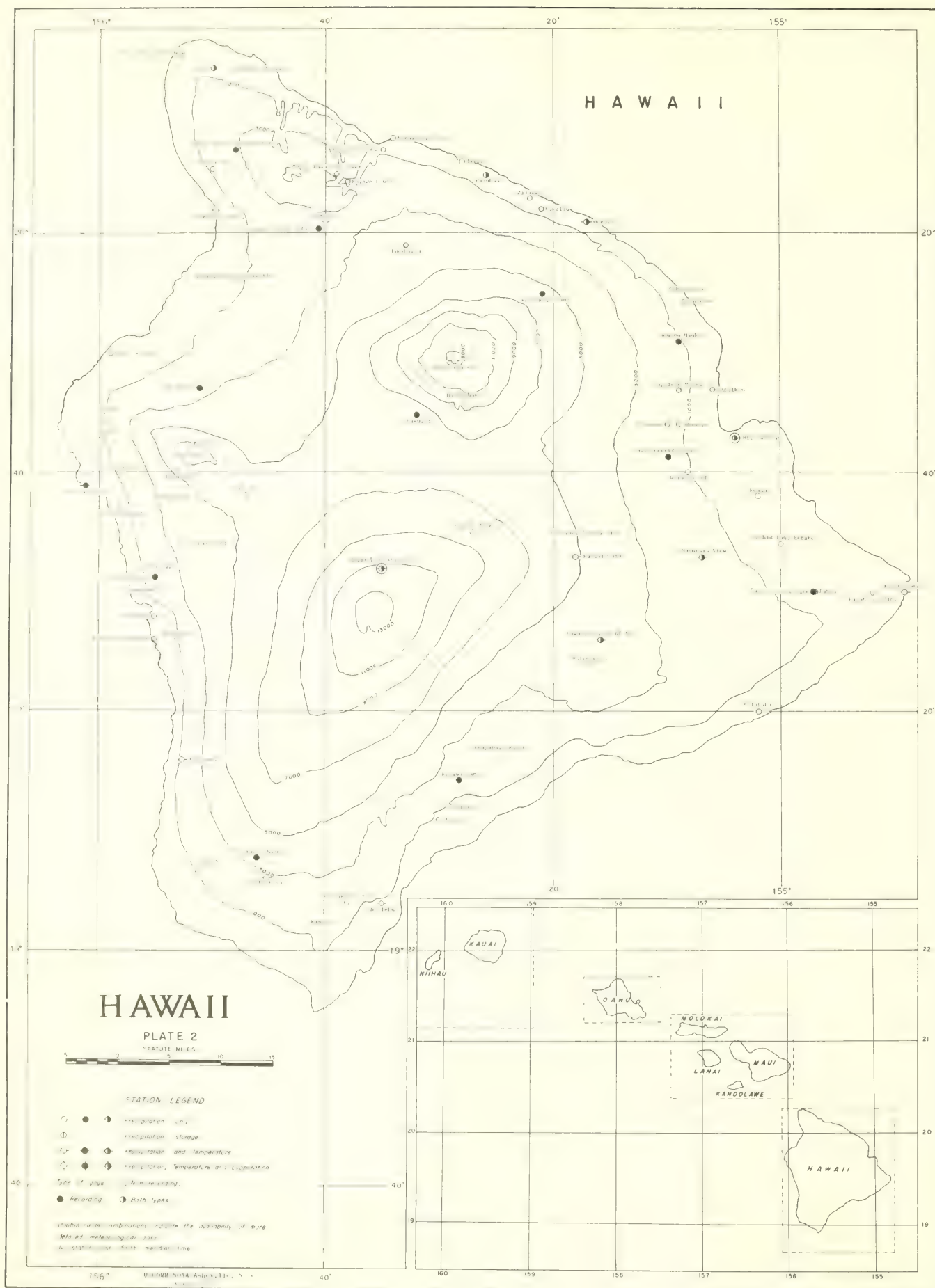
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

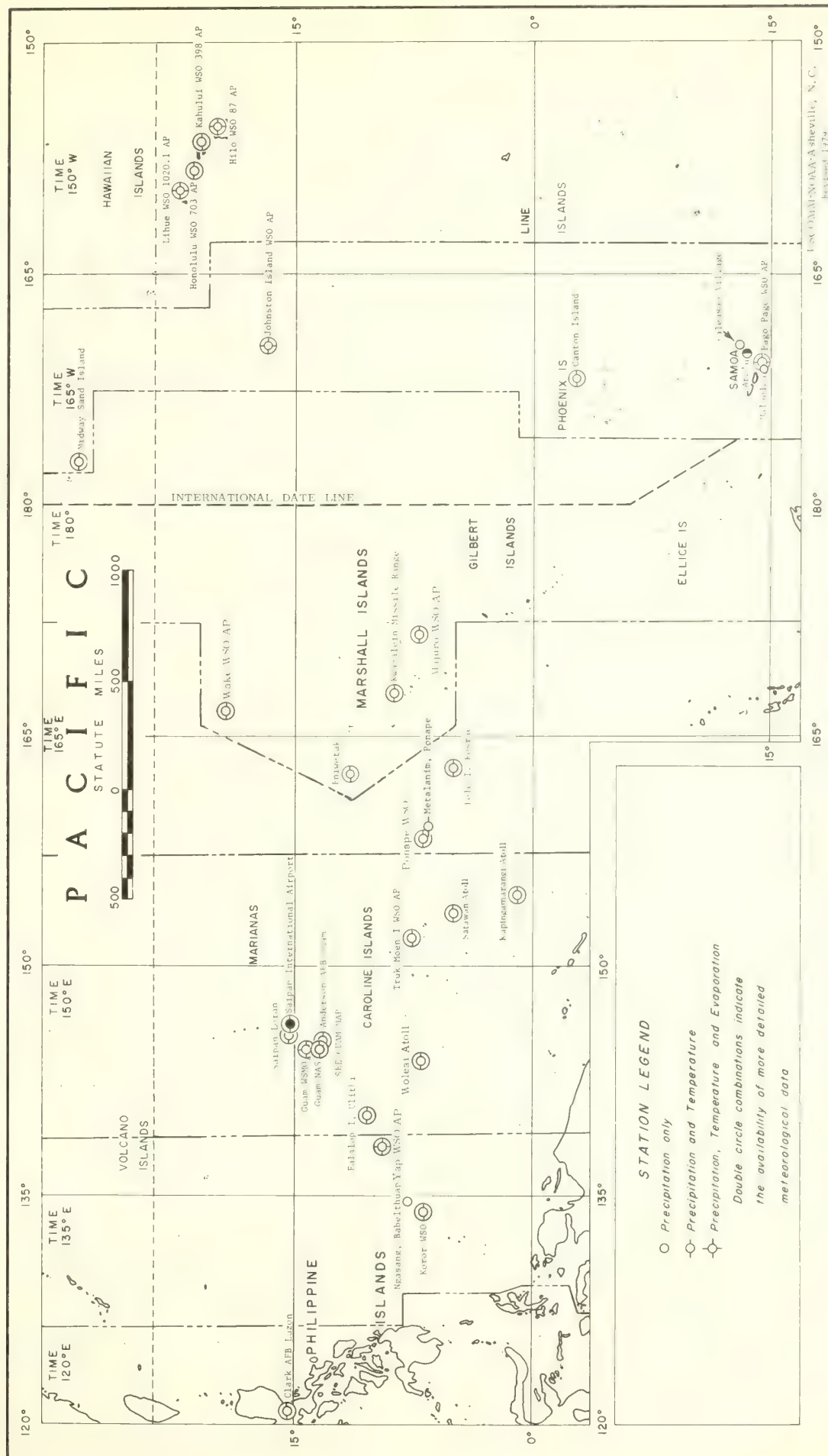
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

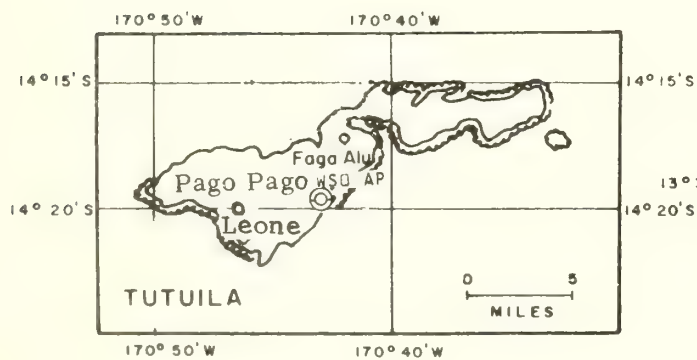
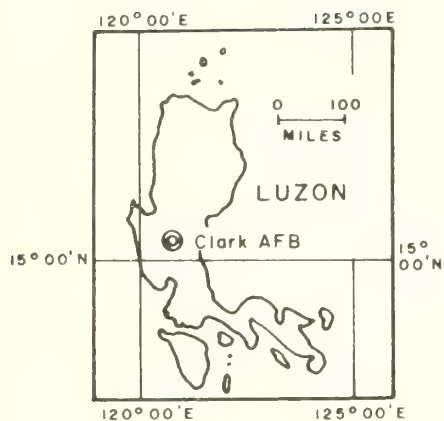
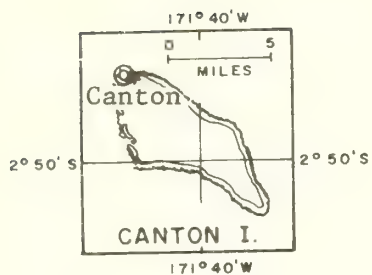
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
ATTN: Publications

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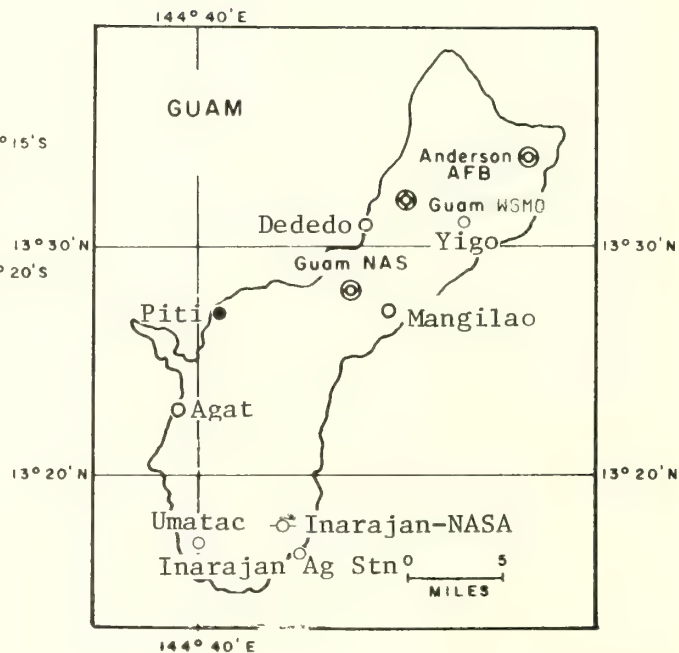


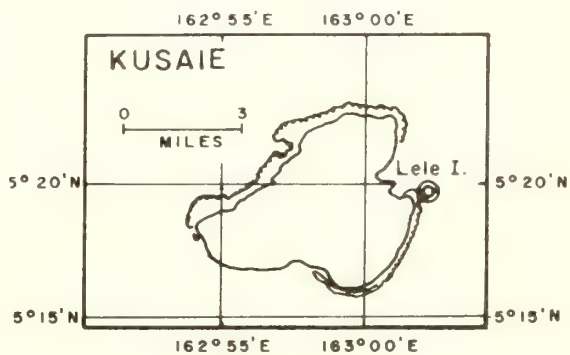
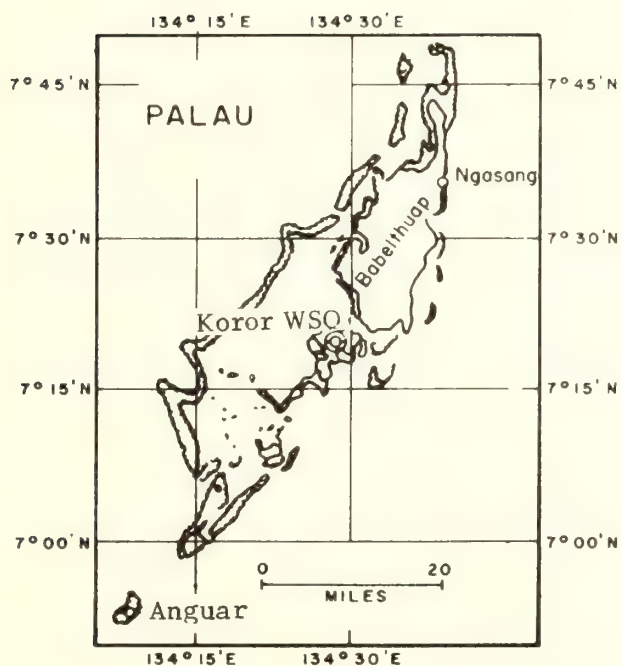
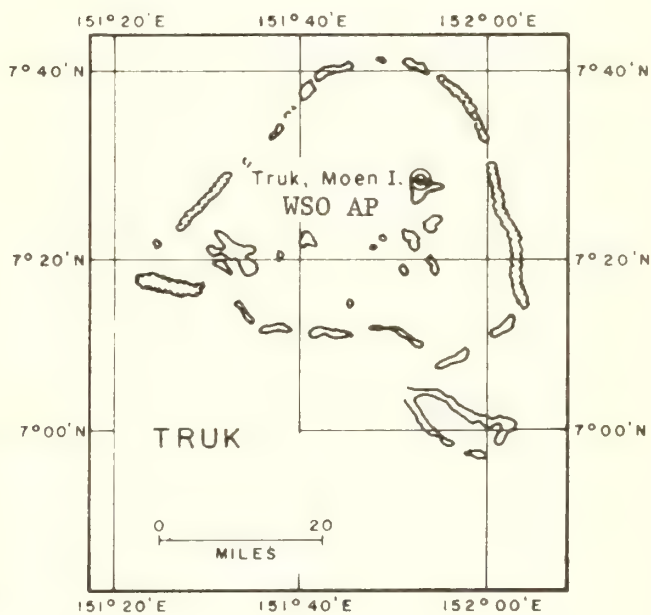
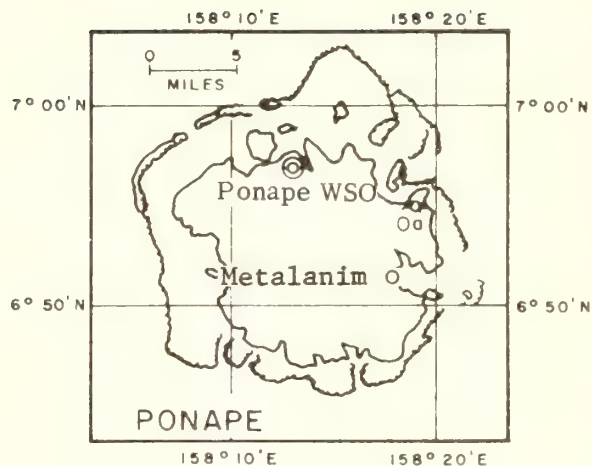
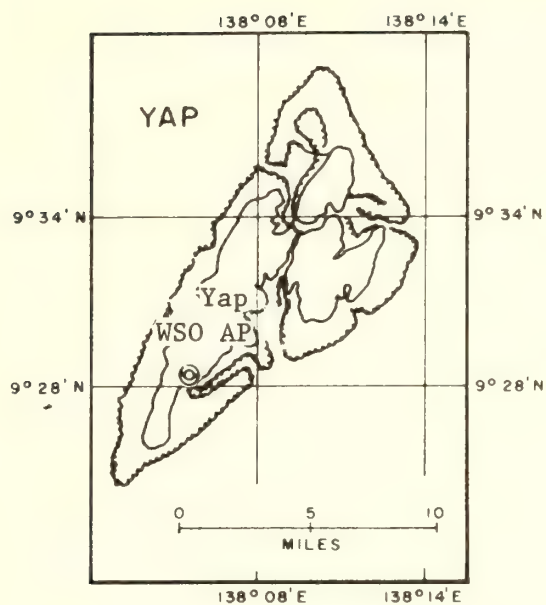




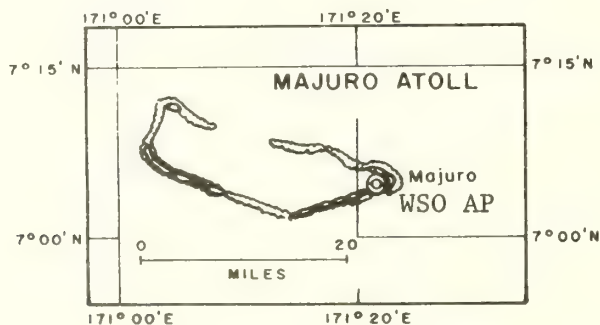
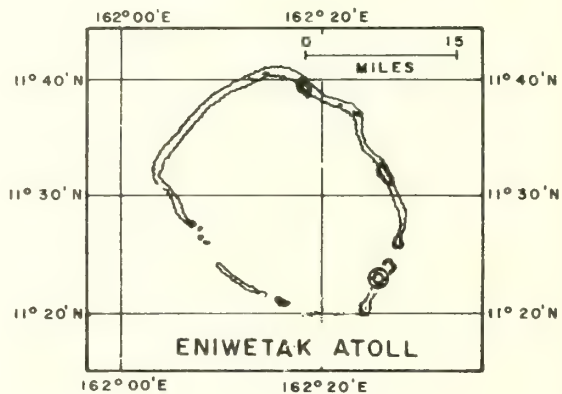
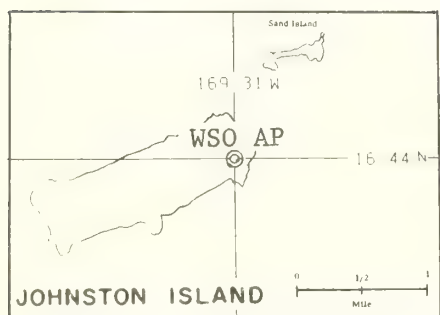
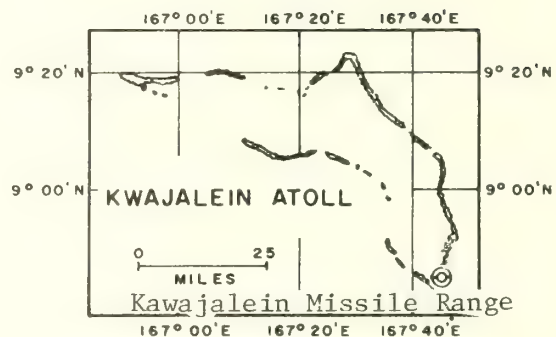
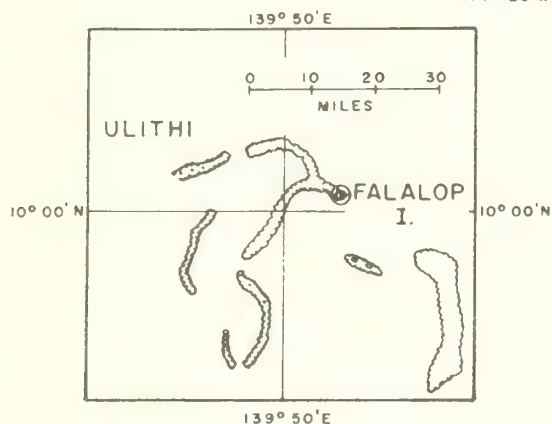
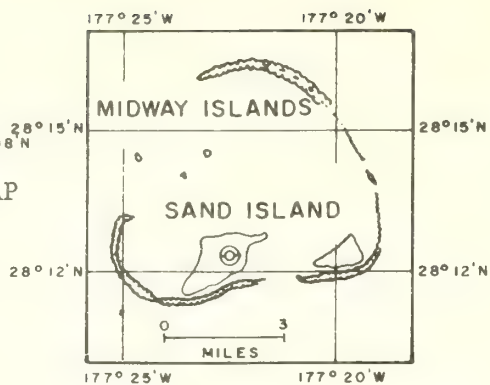
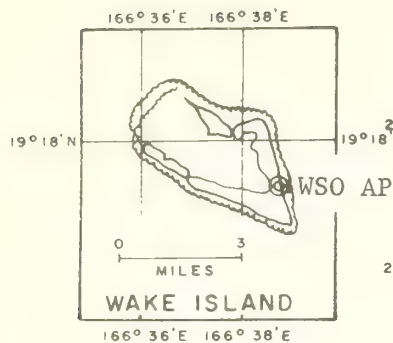


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— Reef



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CLIMATOLOGICAL DATA

ANNUAL SUMMARY



HAWAII & PACIFIC

1979

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF
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TION AND IS COMPILED FROM INFORMATION RECEIVED AT
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Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

Table 1

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC
1979

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
HAWAII																										
ISLAND OF HAWAII																										
KANALUUPU HILL 1075	54.3		56.5		55.6		57.5		60.6		62.0		62.5		61.6		64.1		M				56.6M		-	
PILAEIA POINT 1111		M			72.4M		74.2M		75.8M		77.2M		79.2		80.2M						75.7		74.2M		-	
PALLA LN (PAA) 940.1	71.7		71.3		73.4		74.7		77.8		77.2		78.4		79.1		80.7		1.7		78.5		74.8		72.9	
LELE WSO AP 1720.1	71.2	-2.0	72.7	-1.5	72.0	-3	72.5	-4.8	75.1	-4	77.2	-3	78.4	-0	79.1	-0	80.7	-1.7	77.2	-3.1	77.2	-3.7	72.7	-1.3	70.8	-2.0
NEL RIDGE 1075		M	67.7M		68.7M		70.6M	-1.2	73.4	-2.4	74.1M	-1.4			76.8	-1.7	77.7M									
WAIAMI LOWER 1754	67.7		67.2		66.6		67.7		70.7		71.8		71.0		72.8		74.3				73.7		70.9		69.3	
WAIPIA 947	69.7		68.6M		70.1M		71.8		74.8M		M		77.3M		79.0M		80.0				79.2		75.4		73.4	
ISLAND	69.0		68.7		67.5		68.7		71.4		72.1		71.9		74.9		74.7				77.1		74.2		69.3	
ISLAND OF CAHU																										
ISLAND OF MOLOKAI																										
ALOMA STADIUM-HALAWA	70.5M		71.1M						75.1M																	
BAY L LAIE 903.1	71.6		71.2		73.4		73.2		76.8		78.1		78.6M		79.3		79.7M				77.8M		74.9		72.4	
MONOLU OBSERV 702.2					70.7		73.0		75.3		77.8		78.5		79.1		79.5				79.7M		75.7		74.1	
MONOLU WSO AP 703	69.9	-2.4	72.1	-2.0	72.8	-2	74.8	-0	78.0	-1.1	80.0	-1.1	80.9	-1.8	80.4	-3	81.1	-7			81.0	-2.1	77.4	-0.9	75.3	-1.6
KANOE MAUKA 781	70.2	-9	69.9	-1.1	72.2M	-1.0	73.1	-5	75.3	-1.1	75.6	-3	77.0	-4	78.4	-1.4	79.4	-2.6			M		M		75.7	-1.7
MANA LYON ARBORETUM	67.8		67.7		69.5		70.7		72.2		72.1		71.3		75.6		76.4				75.7		72.4		72.2	
CAPELLA 870	68.1M	-1.3	69.4	-2.0	72.0M	-5.2	70.7	-2.6	72.7	-2.7	73.3M	-1.6	74.9	-2.5	76.4	-1.3	76.7M	-3.4			76.5M	-4.2	74.0	-3.6	71.8	-3.9
FLU MANAWAUA 725.6					71.0M		72.8M		76.3		77.4M		77.1M		79.0		79.5				79.5		71.2		69.1	
WAIKALE 896.3	70.1M		69.8M																							
WAILUA 647	67.8M	-2.3	68.7	-1.0	65.6	-5	71.4	-1	73.2	-1	74.5	-9	75.9	-2	76.9	-2	76.7	-4			77.7	-2.4	73.2	-3	71.5	-4
WAIKINI 717.2	72.1		72.7		74.2		75.4		76.2M		76.9		78.8M		79.5M		80.6				79.6		76.8		75.1	
WAIKALE EXP FM 795.1	70.8		70.1		71.9		72.5		75.4		76.9		78.2		79.4		80.7				79.4		74.7		73.0	
ISLAND	69.9		70.1		71.6		72.6		75.1		76.2		77.3		78.4		79.0				78.0		74.5		72.8	
ISLAND OF MOLOKAI																										
ISLAND OF LANAI																										
LANAI AIRPORT 656					67.1				70.8				71.7		74.2		74.0				74.6		71.6		70.1	
LANAI CITY 672	67.7	-2.1	68.4M	-1.1	65.2	-1.2	M		67.5	-1.5	69.4	-1.1	70.2M	-1.2	71.5	-0.6	72.4	-0.6			71.3M	-0.4	68.7	-0.3	68.6M	-1.8
ISLAND	67.7		68.8		65.2				67.5		69.4		70.2		71.5		72.4				71.3		68.7		68.6	
ISLAND OF MAUI																										
HALEKALA P 5 338	47.3	-3.7	48.9	-1.4	50.6	-4	49.4	-2.8	52.5	-1.1	54.0	-2.4	56.2M	-2	56.5M	-5	55.0M	-5			56.4	-1.4	52.9	-0.7	51.7	-0
MAKA AIRPORT 555			70.4M		70.1M		73.3		75.4		76.1		75.9		77.7		79.2				78.4M		76.1		74.4M	
KANAPALI AP 453.1	70.2				71.4		72.6		75.1		76.9		77.4		78.8M		79.7M				79.2		74.6		73.4M	
KAHULUI WSO 398 AP	71.1	-0.6	71.8	-0.2	71.4	-0.8	73.3	-0.5	75.9	-0.5	78.5	-1.4	79.1	-0.9	80.5	-1.7	80.9	-2.5			80.5	-3.2	76.5	-1.2	75.4	-2.8
WAILUA 446		M	67.2	-0.7	68.4	-3	69.8	-0.6	70.9	-0.3	71.3	-0.7	72.5M	-2	73.6M	-3	74.6	-1.3			74.2	-1.6	M		71.0M	-2.1
KAWAKAPU BEACH 260.2	69.9				71.5		73.0M		75.3		76.8		77.8		78.9M		78.6M				78.6M		75.6		74.3	
KULA BRANCH STN 324.5							61.4		62.9		64.4		65.8		67.3		67.5				67.4		64.5		63.6	
KULA HOSPITAL 267	59.3M	-2.0	60.9	-0	59.7	-1.5	62.1	-0	62.9	-0.6	64.3	-0.4	65.1	-0.5	66.4	-0.1	66.6	-0.8			M		M		63.5	-1.1
LAHAINA 361	71.9	-0.4	70.6	-1.0	72.2	-3	73.3	-0	75.9	-1.0	77.2	-0.7	77.8	-0.2	78.6	-0.6	79.2	-1.5			79.4	-2.4	76.5	-1.3	74.9	-1.9
UH AGRI RES CNTR 324.5	69.5		60.4		59.8																					
ISLAND	69.0		65.0		66.3		67.7		69.8		71.2		72.0		71.7		73.7				74.5		71.3		69.2	
ISLAND OF HAWAII																										
HAWAII VOLCANO NP HQ 54	56.4M	-1.5	56.7M	-0.9	57.4M	-0	59.5M	-5	60.2M	-2	60.9M	-8	61.7M	-1.0	64.6	-1.4	65.7	-2.3			64.8	-2.4	61.8	-1.2	61.0M	-2.6
HILO WSO AP 87	69.8	-1.4	70.4	-0.6	71.5	-0.4	73.8	-1.6	73.8	-3	74.2	-4	74.6	-7	75.6	-3	76.5	-9			74.1	-1.1	71.0	-5	72.8	-1.2
KAHULUI 71.2	67.2		67.7		67.9		69.2		69.9		71.0		71.9		72.7		73.1				73.2		71.7		70.3M	
KAMUELA 192.2	59.7		61.9		61.3M		63.5M		65.2M		66.9		66.7M		69.9		69.8M				69.3		64.8		63.4	
KAPOHO BEACH 93.11	71.1		71.6M		71.4		74.6		76.4		77.3		78.0M		79.0M		79.8M				M		74.6		75.1	
KAPA (KAHULUI) 68.3																					78.9M		74.7M			
KULANI CAMP 79	50.7M		51.1		52.9M		54.6M		55.6M		57.1M		60.3		60.0M		60.8M				59.6		56.5M		56.5M	
MAUNA KEA OBS 111.2	33.1M				31.9M		32.6M		38.3M		41.2M		41.9M		40.5M		42.4M				37.2M		M		37.7M	
MAUNA LOA SLOPE OBS	37.5M		38.0M		39.9		43.3M		46.1		46.9		47.5		47.5		47.4				45.9M		41.0M		45.1	
MOUNTAIN VIEW 91	64.0	-1.6	64.6	-0.7	65.4	-3	67.3M	-1.1	68.4	-1.0	68.7	-1	70.1M	-0.6	71.6M	-1.6	72.7	-2.2			71.7M	-2.4	69.4	-5	68.3M	-0.9
MALEHUA 14	67.4		66.7		68.0		68.9		69.7		70.8		71.8		72.9		74.7				73.9		72.0		70.8	
COPALA 273	65.2	-2.3	66.8	-1.0	69.4	-7	71.1	-2	69.8M	-2.8	73.2M	-9	72.8M	-1.9	75.0M	-2	76.1M	-7			76.0M	-1.3	72.9M	-0	72.0	
OPITHALE 2 74.1	65.9		67.1		68.9		69.1		69.1		70.1		70.5		72.0		72.3				71.8		69.6		68.3	
PUUKOHOLA HEIAU 98.1		M	73.0M		74.5M		76.6M		78.5		78.7		80.5M		81.1		81.2M				80.8		M		75.9M	
SOUTH KONA 2433	63.0		63.3M		63.2		64.6M		65.2M		66.3		67.4		68.5M		68.0				M		66.1		64.9	
OPOLU POINT USCG 159.2	70.6M		71.0M		71.2M		73.7M		75.2		75.8		76.6		78.9M		79.0M				79.0M		76.0		74.4M	
ISLAND	63.0		65.1		65.9		67.6		68.5		69.4				70.9		72.8				73.1		72.2		69.1	

Table 1

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC
1979

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
PACIFIC																										
* * *																										
EAST OF 140TH MERIDIAN																										
CANTON ISLAND	81.8M		82.2M		83.7M		83.6M		83.2M		82.3M															
JOHNSTON IS. WSO AP	75.7	- 1.1	75.7	- .4	77.1	.5	77.1	- .3	79.1	.2	80.0	- .2	80.9	.1	81.6	.7	82.7	1.8	82.0	1.4	78.9	- .4	78.7	1.1	79.2	.3
MIDWAY SAND ISLAND	67.9	-.2	67.1	1.6	68.3	1.9	69.4	1.8	72.1	.7	76.4	.7	79.6	1.8	80.9	2.2	81.7	2.5	79.5	3.9	72.9	1.0	-	-	-	-
PAJO PAGO WSO AP	81.0	.7	81.4	.9	82.3	1.9	80.1	- .5	81.2	1.7	81.1	2.0	79.4	.1	78.8	.6	80.5	1.5	81.0	1.6	77.4	.5	80.5	.5	80.6	1.0
* * *																										
WESTERN PACIFIC ISL. NORTH OF 12°																										
ANDERSEN AFB GUAM	77.5	- .7	78.9	.7	78.6	.1	78.8	- .7	79.9	- .4	81.6	.8	80.2	- .2	80.8	.7	81.1	1.7	81.5	1.5	81.4	1.1	79.8	.5	80.0	.4
CLARK AFB LUZON	-		80.4	1.6	82.0	.9	85.0	1.2	84.0	- .2	83.3	1.4	81.7	1.1	80.0	.2	81.7M	3.1	80.1	- .3	81.2	1.8	77.6	- .4	-	-
GUAM NAS	76.9	.5	79.9	.5	80.4	.4	81.5	.7	82.0	.7	83.5	1.7	81.8	.4	81.1	- .1	80.8	1.8	80.4	1.6	81.6	.6	80.7	.5	81.6	.8
CAMP WSMC	77.4	.1	77.0	- .3	77.7	.0	78.9	- .1	80.2	.8	81.1	1.3	79.7	.3	79.6	- .3	79.5	-	79.2	.3	78.9	- .3	78.0	- .5	78.4	.1
INARAJAN - NASA	77.9		78.2		78.6M		79.6		79.8		79.8		81.2M		79.7		80.4M		80.4		81.3		80.0M		79.6M	
NAVE ISLAND WSO AP	77.4	.4	77.4	.4	79.1	1.4	80.0	1.7	81.8	2.0	83.1	1.8	85.2	3.2	91.5	- 1.1	83.1	.4	81.4	1.4	79.4	- .0	78.6	.1	80.6	.9
* * *																										
CAROLINE AND MARSHALL ISLANDS																										
KOROR WSO	81.4	.2	81.7	.6	81.3	.2	81.7	- .6	82.4	.4	81.0	- .6	81.1	.0	81.4	.4	82.1	.5	80.7	.1	82.2	.2	81.5	.2	81.8	.1
KWAJALEIN MISSILE RGN	81.1	- .1	81.4	.0	82.8	1.1	81.5	- .3	82.4	.6	82.4	.5	82.5	.4	82.1	- .4	83.7	.5	82.9	.5	82.4	.7	82.0	.4	82.0	.3
LIFE I KICPAE	-		81.1	- .6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAJURO WSO AP	81.2	.4	81.7	- .2	81.6	.4	79.7	- 1.4	80.9	.4	81.5	.5	81.5	.5	80.5	- .6	82.0	.4	82.1	.8	81.8	.6	81.7	.6	81.1	.1
METALANIM	- .6		80.2		80.4		79.6		80.2		80.4		79.5		79.6		79.6		79.6		79.4		78.6		79.7	
PONAPE WSO	81.7	1.1	81.5	.8	81.7	.9	80.6	- .1	81.6	.9	81.7	1.2	81.4	1.4	81.7	.6	81.6	1.2	81.6	1.4	81.7	1.4	81.1	.5	81.4	.9
TOLU MOEN I WSO AP	81.9	.9	82.2	1.1	81.8	.5	81.8	.5	81.9M	.6	82.1	1.0	81.8	1.1	81.3	.4	82.4	1.4	81.1	.2	81.6	.3	81.1	.2	81.4M	.7
YAP WSO AP	81.5	.1	80.7	- .3	80.8	- .2	81.7	.0	81.5	- .3	81.4	- .3	80.1	- 1.1	81.2	- .8	81.4	.1	91.0	- .4	81.3	- .2	-	-	80.9	.3

See Reference Notes Following Station Index

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HAWAII AND PACIFIC
1979

JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
12.16	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19	11.19
6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12
7.44	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12
6.45	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49	17.49
1.75	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43
7.46	1.92	13.66	10.44	1.40	3.12	2.10	4.99	1.28	1.83	2.40	1.88	4.52	1.22	2.64	1.01	4.57	1.65	2.33	1.15	4.58	3.45	7.21	1.08	41.15	3.06
7.46	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.40
1.15	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25
7.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46
3.49	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63	26.63
28.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
31.09	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04
21.18	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
33.70	25.47	15.64	8.90	2.80	2.91	1.00	1.25	4.66	1.16	1.25	4.08	1.12	1.05	4.11	2.66	1.24									

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC
1979

TABLE 2

	STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL			
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE		
	HUEHUE 92.1	A 1.79		5.10		1.95		9.85		8.28		2.27		2.17		2.65		2.34		2.54		2.90		1.81		43.65			
	KAWALOA 29	A 2.19		7.37		1.65		8.85		9.17		4.73		6.00		6.24		8.94		4.78		3.10		.98		63.00			
	KAILUA HEIGHTS 68.15			-		-.32		8.44		7.86		4.40		4.40		5.06		9.14		3.94		-		-.86		-			
	KAILUWU 73.2			2.16	1.71	7.13	4.25	1.14	4.02	9.30	3.41	14.68	7.70	6.51	-.75	8.81	.73	9.68	1.54	11.34	4.09	5.97	.61	2.97	1.32	1.91	1.70	81.80	12.83
	KALOA 69.42			3.12		9.16		1.68		11.11		17.88		3.21		3.49		4.54		8.29		3.32		1.30		1.13		68.73	
	KALAPANA 1 67.8			8.99		26.63		4.21		12.59		4.39		1.23		2.29		.98		8.44		13.73		3.55		90.21			
	KAMOLA 2 5	A .94		8.07		7.31		2.41		2.31		2.31		1.83		1.95		.69		7.45		6.29		.52		39.77			
	KAMUELA 192.2			13.10	8.89	6.56	2.78	1.59	2.38	2.83	-.72	2.11	-.09	2.12	.55	1.63	-.68	.91	1.61	.72	.35	1.86	-.17	11.86	9.08	3.16	1.68	48.45	13.62
	KAPAPALA PANCH 36	A 2.78		50.85		2.02		23.41		5.35		1.80		.79		3.15		1.66		11.78		11.00		3.19		117.78			
	KAPOHO BEACH 93.11	A 14.63		13.93		2.82		7.29		3.70		4.28		3.05		2.22		3.50		8.10		14.19		6.21		87.92			
	KAPOHO LANDING 93.5	A 24.41		21.05		6.79		8.40		4.05		5.92		4.46		4.93		5.60		-		-		.955		-			
	KAWAINUI LOWER 191	A -		-		8.13		3.03		8.64		18.69		17.10		12.79		5.31		6.96		32.97		14.25		-			
	KESAL 92	A 38.17		47.71		7.27		11.11		6.44		13.09		6.09		7.06		4.27		9.28		22.67		8.23		181.59			
	KIOLANAH A & F 6	A 2.70		21.70		2.19		12.21		7.00		3.29		-		6.80		3.03		7.80		11.80		1.59		80.11			
	KIWA 89.2	A 57.53		57.34		11.28		-		-		-		-		-		-		-		-		-		-			
	KOHALA MISSION 175.1			18.35	12.68	8.12	2.95	3.60	3.68	4.72	1.29	2.78	1.74	7.47	3.85	5.07	.41	4.30	1.44	2.36	.19	2.94	1.50	11.76	6.50	7.39	.17	78.86	15.56
	KOTAWE LOWER 196	A		18.16		6.03		2.25		6.59		14.23		10.50		7.94		3.47		5.05		30.78		11.06		-			
	KONA VILLAGE 93.8			.48		3.22		.30		2.84		1.60		1.06		.66		1.95		.62		.49		1.97		16.00			
	KUAKIAI 272			60.44	53.11	14.44	2.82	4.75	9.64	8.55	4.53	2.60	5.75	10.98	7.66	6.42	.53	-	.84	2.52	2.67	4.73	29.34	19.66	11.13	2.89	-	-	
	KUKUHALE HIC 159			36.65	30.93	8.40	1.75	4.30	5.56	3.52	4.65	1.85	1.73	7.27	4.31	7.28	2.35	5.34	1.33	1.13	1.60	2.40	3.18	25.29	18.79	9.27	.10	115.08	41.18
	KUKUHALE MILL 208	A 28.40		7.73		3.24		3.77		2.21		4.68		5.17		3.38		.88		1.31		18.86		5.92		85.45			
	KULANI CAMP 79	A 30.20		32.15		5.78		12.70		4.17		8.24		3.35		3.13		2.62		7.88		20.57		2.15		132.94			
	KULANI MAUKA 76	A 18.87		1.19		4.12		.97		1.04		1.04		.80		.34		.46		6.64		12.78		.94		-			
	KULANI SCHOOL SITE 78	A 17.66		30.59		6.21		10.10		1.98		5.04		5.65		3.28		1.82		7.57		21.10		4.78		115.18			
	KUNEHU 68.2	A 2.13		8.14		3.22		13.35		15.75		7.11		9.47		12.67		17.13		5.56		1.24		.77		95.94			
	MAKAHALA 103			15.46		6.34		.39		3.87		1.37		1.12		.21		1.40		2.57		14.88		1.88		51.28			
	MANUKA 2	A 3.75		9.81		2.45		10.70		5.75		3.60		2.46		2.36		4.75		8.10		-		8.60		62.53			
	MAUNA KEA OBS 111.2	A 1.20		-		.22		.15		.12		.00		.23		.93		1.20		3.40		3.40		.00		-			
	MAUNA LOA SLOPE OBS			5.61		8.49		.61		1.05		.14		1.19		.28		2.35		.43		4.52		.63		30.43			
	MIDDLE PEN 147.1	A 2.79		4.03		.16		3.21		3.55		.20		.21		.68		.23		1.57		3.07		1.27		22.97			
	MOAULA 18	A 1.40		15.30		-		8.20		.70		1.07		.00		.14		.10		2.32		.20		.00		-			
	MOUNTAIN VIEW 91	A 44.36	32.19	56.26	40.23	9.74	10.64	14.26	5.60	10.47	6.20	17.10	6.44	12.34	2.49	7.33	9.48	3.93	6.91	10.76	3.27	30.41	11.73	6.85	13.26	223.83	32.74		
	NAALEHU 1	A 1.42		16.11		1.39		9.93		2.76		1.24		1.27		1.62		.63		7.67		8.30		.88		53.22			
	NAPOOPOO 28	A 1.02		5.01		.31		5.79		4.78		3.80		4.25		3.16		4.13		4.26		3.67		.60		40.78			
	OKALA 223	A 54.03	66.89	17.48	6.56	5.75	8.31	12.91	-.23	4.09	5.26	11.75	7.32	6.88	-.36	5.44	3.99	2.71	1.88	4.22	3.84	31.28	20.91	8.28	5.51	165.22	52.30		
	OPIHIKALE 2 24.1			2.24		7.21		1.19		5.35		5.41		3.41		3.53		5.88		6.99		3.45		3.71		1.84		50.21	
	ORCHID LAND EST 91.5	A 35.29		31.37		11.16		14.50		6.97		13.30		7.19		7.54		4.51		-		-		7.78		-			
	PAHAUHA 217	A 40.92	36.11	7.31	.24	2.80	6.05	5.61	2.18	2.33	2.30	5.00	3.14	5.47	1.99	3.20	1.32	.78	1.42	1.02	4.01	25.60	19.68	6.50	2.03	106.54	41.85		
	PAHULO 221	A 58.29	49.74	12.45	2.01	3.65	9.29	7.27	3.91	2.45	4.52	9.75	7.10	6.73	1.97	2.88	3.74	.55	2.18	2.07	4.22	28.91	20.63	10.46	2.04	143.46	51.55		
	PAHALA 21	A 1.99		40.88		1.08		12.55		1.79		.83		.17		.90		1.15		8.59		10.48		1.21		81.90			
	PAMOA 65			41.41	30.39	37.83	24.66	11.01	4.15	16.99	4.40	6.37	5.50	11.64	3.54	7.81	2.39	7.78	3.35	5.46	3.04	13.74	1.93	26.10	11.82	9.63	7.65	195.77	50.66
	PAPAIKOU 144.1	A 35.24	25.86	57.22	43.88	5.67	8.92	4.64	4.38	6.95	4.59	12.74	5.78	8.71	1.69	6.66	5.77	4.45	3.94	10.24	1.59	26.36	12.62	8.17	9.15	192.05	48.07		
	PAPAIKOU MAUKA 140.1	A 58.22	44.27	82.49	44.50	10.31	13.10	17.37	5.87	10.07	9.46	20.87	8.91	13.85	3.27	8.35	12.78	6.37	8.68	10.06	6.94	29.60	9.71	13.67	10.28	261.21	39.20		
	PIIKOHA 89			-		17.40		17.21		10.80		-		-		8.30		5.80		10.40		47.60		8.20		-			
	PUUKOHOLA HEIAU 98.1	A .51		2.64		.00		2.32		7.06		.74		.04		.83		.54		1.79		.51		.94		12.92			
	PIU LEHUA 73	A .65		5.70		.55		4.60		1.30		2.05		1.46		2.50		2.00		1.25		2.00		.23		24.63			
	PUUKOHOLA-OHONAUNAU			-		-		2.49		2.04		3.19		2.87		1.89		3.71		3.18		1.90		.49		-			
	SOUTH KONA 2.31	A .74		12.71		.99		10.61		1.48		.38		.83		3.19		1.90		5.87		3.50		1.38		43.18			
	UPOLI POINT USCG 159.2			7.80		5.71		1.76		3.49		1.17		1.72		1.61		1.04		1.42		4.74		3.61		37.34			
	WAIKANA SCD 88.2			54.02																									

Table 3

TEMPERATURE EXTREMES

HAWAII AND PACIFIC
1979

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
HAWAII					PACIFIC				
* * *					* * *				
ISLAND OF KAUAI					EAST OF 180TH MERIDIAN				
KANALOHULU 1075	80	10-7	37	1-2	CANTON ISLAND				
WILAUEA POINT 1133	-	-	-	-	JOHNSTON IS WSO AP	88	10-12*	67	1-12*
KOLOA LN (PAK) 940.1	-	-	-	-	MIDWAY SAME ISLAND	92	9-7	55	11-10
LIHUE WSO AP 1070.1	89	10-7*	58	3-29	PAGO PAGO WSO AP	91	12-8	64	8-15
NIU RIDGE 1035	94	10-19	52	2-13					
* * *					* * *				
MAIHI LOWER 1054	86	8-16	51	1-2	WESTERN PACIFIC ISL, NORTH OF 12 N				
WAIHEA 947	92	10-1*	54	4-6*	ANDERSEN AFB GUAM	89	9-1	72	12-27*
* * *					CLARK AFB LIZON	100	5-2	64	12-15
ISLAND OF OAHU					GUAM NAS	92	9-6*	72	12-27*
ALPHA STADIUM-HALAWA	97	8-29	-	-	GUAM WSO	91	7-16	63	2-23
B Y U LAIF 903.1	92	9-22	58	3-26	INARAJAN - NASA	98	5-4	50	8-11*
HONOLULU ORSERV 702.2	93	9-1	-	-	WAKE ISLAND WSO AP	94	7-18	67	2-1
HONOLULU WSO AP 703	93	10-11	57	1-3*					
KANEHE MAUKA 701	-	-	62	2-5*	* * *				
MANDA LYON AIRPORTUM	88	10-11	55	3-25	CAROLINE AND MARSHALL ISLANDS				
OPAPULA 870	92	8-28	55	3-25					
PUU HANAWAUA 725.6	-	-	-	-	KOROR WSO	92	9-5	69	4-13
WIALEE 896.3	89	10-11*	-	-	KWAJALEIN MISSILE RGN	90	11-13*	68	1-4
WAILUA 847	93	8-31	54	4-29*	LELF I MOSRAE	90	12-4*	70	1-2
WAIKIKI 717.2	93	9-17*	56	4-28	MAJURO WSO AP	90	12-4*	70	1-2
WAIMANALO EXP FM 795.1	90	7-13	57	1-2	METALANIM	96	10-18	66	12-8*
* * *					PONAPE WSO	93	12-9*	69	1-5
ISLAND OF MOLOKAI					TRUK MOEN I WSO AP	92	8-26	70	12-6*
MOLOKAI AP 524	-	-	51	3-26	YAP WSO AP	92	9-5	70	7-26*
* * *									
ISLAND OF LANAI									
LANAI AIRPORT 656	87	9-2	-	-					
LANAI CITY 672	87	9-14	52	3-11					
* * *									
ISLAND OF MAUI									
HALFAKALA R S 338	76	7-17	32	3-24*					
HANA AIRPORT 355	94	11-3	58	3-9					
KAANAPALI AP 453.1	93	8-24	-	-					
KAHULUI WSO 398 AP	94	8-18	56	3-25*					
KAILUA 446	85	10-10	57	3-5*					
KEAWAKAPU BEACH 260.2	93	10-4*	-	-					
KULA BRANCH STN 324.5	82	9-14	-	-					
KULA HOSPITAL 267	81	10-9	45	2-13*					
LAHAINA 361	92	10-14*	55	1-8					
UH AGRI RFS CNTR 324.5	-	-	-	-					
* * *									
ISLAND OF HAWAII									
HAWAII VOLCNS NP HQ 54	82	9-1	41	3-5					
HILO WSO AP 87	91	10-8*	57	2-1					
KAIHALIUI 73.2	88	10-11	54	1-3					
KAMUELA 192.2	83	10-11	42	3-25					
KAPOHO BEACH 93.11	94	8-30*	57	3-5					
KONA (KAILUA) 6R.3	-	-	-	-					
KULANI CAMP 76	89	10-7	32	1-7					
MAUNA KEA OBS 111.2	60	9-10	12	5-17					
MAUNA LOA SLOPE OBS	67	8-28	24	1-26*					
MOUNTAIN VIEW 91	87	10-9	53	3-26*					
NAALEHU 14	89	12-17*	52	1-20					
OOKALA 223	86	6-5	57	3-9					
OPIHIHALE 2 24.1	91	1-9	52	3-24*					
PUUKOHOLA HEIAU 98.1	98	5-5	56	3-19*					
SOUTH KONA 2.31	85	6-26	50	3-25*					
UPOLU POINT USCG 159.2	90	10-18*	58	2-15*					

See Reference Notes Following Station Index

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII AND PACIFIC
1979

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
HAWAII														
* * *														
ISLAND OF KAUAI														
LIN E WSO AP 1020.1	EVAP	6.00	5.04B	7.57	9.42	9.51B	10.93	11.57	10.67	9.91	8.52B	7.54	5.40B	102.03
	WIND	6041	3999B	4328	4310	4942	6645	6581	4985	4433	4595	5085	3739	59683
	MAX	74.9	76.7	79.4	80.2	83.9	82.8	84.7	86.4	87.3	85.2	78.2	76.9	81.4
	MIN	57.1	58.7	57.6	57.9	62.5	64.3	64.2	65.4	67.0	66.4	62.3	59.5	61.9
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	5.85	3.85B	7.64B	10.67	13.46	16.71	21.60	21.02	18.03	16.33	12.77	9.74	157.67
	WIND	1060	795	776	834	819	906	844	733	660	655	750	754	9586
	MAX	77.9	78.9	84.7	88.0	88.5	88.0	89.5	93.3	94.2	92.4	86.0	85.2	87.2
	MIN	58.5	61.1	59.9	62.4	64.5	65.4	65.8	68.5	70.3	70.8	65.3	64.6	64.8
PACIFIC														
JOHNSTON IS WSO AP														
	EVAP	8.43	7.51	9.81	9.39	9.97	9.89	11.04	10.04	9.88	9.24	8.63B	7.21B	111.04
	WIND	6746	4750	5586	5003	5672	5393	5488	4879	4732	5101	5950	5000	64300
PAGO PAGO WSO AP														
	EVAP	7.38B	7.67B	8.18B	5.33B	6.26B	5.83B	5.66B	6.93B	6.51B	-	7.58B	8.52B	-
	WIND	2716	2926	2562	1784	3430B	4200B	3896	3156	4323	3926	3444	3356	39719
	MAX	91.7	95.2	95.5	94.1	91.6	90.5	88.3	92.0	92.8	92.4	92.5	92.1	92.4
	MIN	74.5	73.9	73.3	72.2	74.4	74.9	70.5	71.3	72.2	72.3	73.2	72.1	72.9
* * *														
WESTERN PACIFIC ISL, NORTH OF 12 N														
GUAM WSO	EVAP	7.26B	6.68	7.76	9.50	10.33	8.44	6.44B	6.34B	5.26	5.16B	5.93	6.36	85.46
	WIND	-	-	4063	4904	3989	4116	2474	1607	1205	2410	3707	3456	-
	MAX	83.2	85.6	85.3	85.9	87.4	87.4	88.9	89.0	90.3	87.4	86.0	85.3	86.8
	MIN	68.9	67.2	67.7	68.7	69.6	70.7	71.4	71.3	71.6	71.9	70.5	69.5	69.9
* * *														
CAROLINE AND MARSHALL ISLANDS														
YAP WSO AP	EVAP	6.52	6.74	7.49B	8.21B	7.41	5.90	5.55B	6.33B	6.15	8.60	6.11	6.11B	87.23
	WIND	2869	2295	2590	2856	2353	2009	2097	2381	1380	2953	1707	2035	29560
	MAX	91.6	92.4	92.7	93.2	94.6	91.9	92.2	92.1	95.2	91.5	92.1	89.5	99.9
	MIN	74.1	73.8	74.0	74.2	75.2	75.6	75.2	74.6	75.6	75.0	74.7	73.4	80.7

See Reference Notes Following Station Index

PRECIPITATION MEASURED IN STORAGE GAGES

For period ending June 30

HAWAII
1978-1979

Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground
PUU PAKI, MAUI	1978										
	Sep 29										
	1979										
	Jan 3	72.00									
	Apr 2	76.00									
	Jul 2	57.00									
WAILUAIKI 6, MAUI	Oct 1	38.00									
	1978										
	Sep 29										
	1979										
	Jan 3	123.00									
	Apr 2	105.00									
	Jul 2	71.00									
	Oct 1	39.00									

See reference notes following Station Index.

STATION INDEX

HAWAII AND PACIFIC
1979

Station	Index No.	Division No.	County	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV 983		0140	02	KOLOA	221 57	159 32	1610						C
ANAHOLA 1114	A	0145	01	KAWAIIHAU	122 08	159 16	180		50				2
BRYDESWOOD STA 985		0240	02	KOLOA	221 56	159 32	720		71				2
EAST LAWAI 934	A	0456	02	KOLOA	221 55	159 30	440		79				2
ELEELE 927	A	0470	02	KOLOA	221 54	159 35	150		80				2
HALAULA 1110	A	0935	01	KAWAIIHAU	122 07	159 19	253		79				2
HALENANAO 1006	A	1038	02	LIHUE	221 58	159 26	490		49				2
HANAHANAPIUNI 1055.2		1140	02	KALAI	222 03	159 25	600						C
HANALEI TUNNEL 1053	A	1170	01	KAWAIIHAU	122 05	159 28	1218		2				2
HUKIPO 945		2161	03	WAIMEA	321 59	159 41	900		40				2
ILIILIULA INTAKE 1050	A	2222	02	LIHUE	222 02	159 28	1050		46				2
INTAKE WAINIHA PC 1066A		2227	01	HANALEI	122 09	159 34	690		16				2
KANALOHULUHULU 1075		3099	03	WAIMFA	322 08	159 40	3600	16	26				1 2 3 C
KANEHA PESERVOIR 1092	A	3104	01	KAWAIIHOU	122 08	159 23	830		18				2
KAPAA STABLES 1104		3159	01	KAWAIIHAU	122 05	159 20	175						C
KEALIA 1112	A	3982	01	KAWAIIHAU	122 06	159 19	9		81				2
KEKAHA 944		4272	03	WAIMFA	321 58	159 43	9		86				2 C
KILAUEA 1134	A	4561	01	HANALEI	122 13	159 25	320		95				2 C
KILAUEA POINT 1133		4568	01	HANALEI	122 14	159 24	180	29	30				1 2 3
KOLO 1033		4735	03	WAIMFA	322 04	159 46	36		44				2
KOLOA 936	A	4742	02	KOLOA	221 55	159 28	240		94				2
KOLOA LN (MAK) 940.1		4748	02	KAUAI	221 52	159 27	52	23	23			JUN	1 2 3
KOLOA MAUKA 994	A	4750	02	KOLOA	221 57	159 29	640		76				2
KOLOKO RES 1137	A	4756	01	KAWAIIHAU	122 11	159 23	560		44			FER	2
KUKUIULA 935	A	4950	02	KOLOA	221 54	159 30	100		78				2
LIHUE VARIETY ST 10621A		5560	02	LIHUE	222 01	159 23	380		18				C
LIHUE 1020	A	5575	02	LIHUE	221 59	159 22	207		76				2
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	221 59	159 21	103	30	30	26			1 2 34C
MAKAWELI 965	A	5864	03	WAIMFA	321 55	159 38	140		89				2
MANA 1026		6092	03	WAIMFA	322 02	159 46	20		76				2
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	322 07	159 36	3500		16				2
MOLOAA 1145	A	6529	01	KAWAIIHAU	122 11	159 20	330		54				2
MOUNT WAIALEALE 1047	R	6565	03	WAIMEA	222 04	159 30	5148		33				2
NIU RIDGE 1035		6850	03	WAIMFA	322 02	159 44	1250	35	41				1 2 3
N WAILUA DITCH 1051	A	6888	02	LIHUE	222 04	159 28	1110		53				2
N WAILUA RIVER 1055	A	6893	02	KIHUE	222 04	159 26	650		2				2
PH WAINIHA 1115		8155	01	HANALEI	122 12	159 34	101		73				2 C
PRINCEVILLE RANCH 1117		8165	01	HANALEI	122 13	159 29	295		71				2 C
PUEHU RIDGE 1040		8205	03	WAIMFA	322 01	159 42	1660		41				2
PUHI 1013	A	8217	02	LIHUE	221 58	159 24	329		45				2
WAHTAWA 930	A	8941	02	KOLOA	221 54	159 34	215		76				2 C
WAIHI LOWER 1054		8958	02	LIHUE	222 01	159 27	565	26	51				1 2 3
WAIHI UPPER 1052		8966	02	LIHUE	222 01	159 28	780		48				2
WAIKAWA 943		9253	03	WAIMEA	321 59	159 43	10		86				2
WAILUA KAI 1065	A	9467	02	LIHUE	222 02	159 21	50		18				2
WAIMEA 947		9629	03	WAIMFA	321 58	159 41	20	2	68				1 2 3
WEST LAWAI 931	A	9955	02	KOLOA	221 54	159 31	210		79				2
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	121 26	157 51	320						C
ALOHA STADIUM-HALAWA		0172	03	OAHU	321 23	157 56	40	5	5				1 2 3
BERETANIA PUMPING STA		0211	02	HONOLULU	221 19	157 51	20		22				2
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	121 39	157 56	20	8	8				1 2 3
CAMPBELL IND PK 702.5		0248	02	OAHU	321 19	158 07	10		9				2
CAMP 84 807		0300	03	EWA	321 26	158 04	760						C
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	121 26	157 47	15		23				2
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	221 21	157 50	565						C
EWA PLANTATION 741		0507	03	EWA	321 21	158 02	5		89				2
HALAWA SHAFT 771.2		0964	02	HONOLULU	221 23	157 54	170						C
HAWAII KAI CRSE 724.19		1308	02	OAHU	221 18	157 39	21						C
HELEMANU INTAKE 881		1384	05	WAILALUA	521 33	158 00	1274					MAY	C
HOKULOA 725.2	A	1540	03	EWA	321 24	158 06	2260						C
HONOLULU OBSERV 702.2		1918	03	EWA	321 19	158 00	5	4	18	18			1 2 34
HONOLULU WSO AP 703	R	1919	02	HONOLULU	221 20	157 55	7	34	34				1 2 3 C
KAENA POINT 841.3		2410	04	WAILALUA	421 34	158 15	1240		8				2
KAHANA 883	A	2462	01	KOOLAULOA	121 31	157 54	800		63				2
KAHUKU 912	A	2570	01	KOOLAULOA	121 42	157 59	15						C
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	121 24	157 45	10						C
KALIHI RES SITE 777	R	2960	02	HONOLULU	221 23	157 50	910		53				2
KANEONE MAUKA 781		3113	01	KOOLAUPOKO	121 25	157 49	325	40	52				1 2 3
KAPALAMA 773	A	3268	02	HONOLULU	221 21	157 52	614		58				2
KAWAIIHAPAI 841	A	3734	05	WAILALUA	521 35	158 11	40		51				2
KEMOO CAMP 8 855	A	4318	05	WAILALUA	521 33	158 05	725		56				2
KOOLAU DAM 833	A	4766	05	WAHIAWA	521 30	157 58	1160		66				2
LULUKU 781.7		5655	01	KOOLAUPOKO	121 24	157 49	240						C
MAKAHA PUMP 800.2		5782	04	OAHU	421 29	158 12	400						C

See Reference Notes Following Station Index

STATION INDEX

HAWAII AND PACIFIC
1979

Station	Index No.	Division No.	County	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
ISLAND OF OAHU													
MAKAKILO 730.1	5789	03	OAHU		321 21	158 06	300		4				2
MANOA 712.1	6122	02	HONOLULU		221 19	157 49	220		62				2
MANOA LYON ARROFETUM	6128	02	OAHU		221 20	157 48	500	5					1 2 3
MANOA TUNNEL 2 716	6130	02	HONOLULU		221 20	157 48	650		53				2
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		121 21	157 46	395						C
MOANALUA 770	6395	02	HONOLULU		221 21	157 54	20		80				2
MOUNT KAALA 844	6553	04	WAIANAE		421 31	158 09	4025						C
NUUANU RES 4 783	6928	02	HONOLULU		221 21	157 49	1048		76				2
NULANU RESERV 5 775	6933	02	HONOLULU		221 21	157 50	410		91				2
OPAELUA 870	7150	05	WAILUA		521 34	158 02	1060	75					1 3 C
PAIKO DR 723.4	7540	02	HONOLULU		221 17	157 44	10		4				2
PALI GOLF COURSE 789.1	7656	01	OAHU		121 23	157 47	480		9				2
PALOLO VALLEY 718	7664	02	HONOLULU		221 20	157 46	995		53				2
PAUOA FLATS 784	7810	02	HONOLULU		221 21	157 48	1640		53				2
PEARL COUNTRY CL 760.2	7942	03	OAHU		321 23	157 56	120						C
PUNAHU PUMP 905.2	8314	01	KOOLAULO		121 35	157 54	20						C
PUNCHBOWL CRATER 709	8316	02	HONOLULU		221 19	157 51	360		30				2
PUPUKA HEIGHTS 896.4	8342	01	WAILUA		121 38	158 02	750						C
PUU MANAWAHUA 725.6	8500	03	OAHU		321 23	158 06	1690	1	3				1 2
TANTALUS 2 788.5	8738	02	HONOLULU		221 20	157 50	1315		17				2
UNIV OF HAWAII 717	8815	02	HONOLULU		221 18	157 49	79		55				2
WAHIAWA DAM 863	8945	05	WAIANAE		521 30	158 03	854						C
WAIHOLE 837	8964	01	KOOLAUPOKO		121 28	157 53	745		64				2
WAILAE KAHALA 715	9185	02	HONOLULU		221 16	157 46	10		58				2
WAILAE 896.3	9190	01	KOOLAULO		121 41	158 02	33	9	9		OCT		1 2 3
WAILUA 847	9195	05	WAILUA		521 35	158 07	32	73	80				1 2 3 C
WAIANAE 798.2	9231	04	WAIANAE		421 27	158 11	10		85				2
WAIANA 836	9261	03	EWA		321 28	157 56	800		64				2
WAIKANE 885	9340	01	KOOLAUPOKO		121 30	157 53	760		64				2
WAIKIKI 717.2	9397	02	HONOLULU		221 16	157 49	10	16	16				1 2 3
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		221 18	157 45	180						C
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		121 20	157 43	60	11	11				1 2
WAIMANALO NONOKI 795.2	9534	01	OAHU		121 20	157 43	120						C
WAIMEA 892	9593	05	WAILUA		521 38	158 04	330						C
WAIPIHU 750	9738	03	EWA		321 23	158 01	59		82				2
WILHELMINA RISE 721	9980	02	HONOLULU		221 18	157 47	1100		53				2
ISLAND OF MOLOKAI													
KALAUPAPA 563	2896	01	MOLOKAI		121 12	156 59	30		16				2
KAUNAKAKAI 536	3541	01	MOLOKAI		121 06	157 01	12		26				2
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		121 06	157 01	70						C
KEONELELE PENS 551	4394	01	MOLOKAI		121 12	157 12	560		17				2
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		121 11	157 14	140				JUL		C
KUALAPUU 534	4778	01	MOLOKAI		121 09	157 02	825						C
MAUNALO 511	6190	01	MOLOKAI		121 08	157 13	1070						C
MOLOKAI AP 524	6534	01	MOLOKAI		121 09	157 06	450	29	31				1 2 3
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		121 09	156 44	700						C
WAIKOLU 540	9404	01	MOLOKAI		121 08	156 55	3550		16				2
ISLAND OF LANAI													
KANEPUU 690	3130	01	LANAI		120 52	157 00	1650		26				2
KAUNALAPAU HARBOR 658	3461	01	LANAI		120 47	157 00	30		18				2
LANAI AIRPORT 656	5275	01	LANAI		120 48	156 57	1300	5	6				1 2 3
LANAI CITY 672	5286	01	LANAI		120 50	156 55	1620	47	51				1 2 3 C
LANAIHALE 684	5301	01	LANAI		120 49	156 53	3370		18		SEP		2
MAHANA 694	5704	01	LANAI		120 52	156 55	1430		26				2
MALAUFA 676	6012	01	LANAI		120 46	156 55	1150		18				2
WAIKAEAKUA 685	9021	01	LANAI		120 47	156 52	2000		26				2
ISLAND OF MAUI													
AUWAHI 252	0175	02	HANA		220 37	156 20	2060		18				2
FIELD 46 474	0541	04	LANAI		420 59	156 38	1050						C
HAELAAU 477	0790	04	LANAI		420 57	156 36	2980		2				2
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		120 51	156 18	2100		59				2
HALEAKALA RANCH 432	0999	01	MAKAWAO		120 50	156 19	1850		89				2
HALEAKALA R S 338	1004	02	MAKAWAO		220 46	156 15	7030	35	42				1 2 3
HALIIMALE 423	1075	01	MAKAWAO		120 52	156 21	1070		17				2
HAMAKUPOKO 485	1086	01	MAKAWAO		120 55	156 21	320		97				2
HANA 354	1122	01	HANA		120 45	155 59	120				MAR		C
HANA AIRPORT 355	1125	01	HANA		120 48	156 01	61	30	30				1 2 3 C
HOLUA CABIN 259.5	1552	02	MAKAWAO		220 45	156 13	6930		17				2
HONOKOHU 480	1882	04	LANAI		420 58	156 36	870		16				2
HONOKOHU 493	1887	04	LANAI		421 00	156 39	135		53				2
HONOLUA FIELD 49 494	1914	04	LANAI		421 01	156 38	125		2				2
HONOHANU GULCH 341	1935	01	MAKAWAO		120 47	156 14	6280		45				2
KAAHAPALI AP 453.1	2307	04	LANAI		420 56	156 42	8	13	13				1 2 3
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		420 59	156 33	650						C

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ISLAND OF MAUI															
KAHOMA INTAKE 374	A	2552	04	LAHAINA	420 54	156 38		2000		70					2
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	320 54	156 26		48	25	25					1 2 3 C
KAILIILI 436	A	2630	01	MAKAWAO	120 51	156 16		2520		56					2
KAILUA 446		2679	01	MAKAWAO	120 54	156 13		700	68	77					1 2 3
KAAUULA INTAKE 375	A	3433	04	LAHAINA	420 53	156 38		1585		62					2
KAUPO RANCH HOUSE 259		3576	02	HANA	220 39	156 08		1020							C
KFAHUA 410		3910	03	MAKAWAO	320 52	156 23		480		62					2
KEANAE 346	A	4091	01	HANA	120 50	156 10		980		76					2
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	220 42	156 27		20	17	62					1 2 3 C
KIHEI 311		4489	03	WAILUKU	320 47	156 27		90		58					2
KIPAHULU 259		4634	01	HANA	120 39	156 04		260		80					2
KUKUI 380	A	4887	04	LAHAINA	420 54	156 35		5788		2					2
KULA BRANCH STN 324.5		5000	02	MAKAWAO	220 46	156 20		3050	2	2		APR			1 2 3 C
KULA HOSPITAL 267		5006	02	MAKAWAO	220 42	156 22		3004	43	43					1 2 3
LAHAINA 361		5177	04	LAHAINA	420 53	156 41		45	36	67					1 2 3 C
LAUNUPOKO INTAKE 376 A		5404	04	LAHAINA	420 51	156 37		1280		67					2
LAUNUPOKO VILLAGE 372A		5408	04	LAHAINA	420 51	156 39		220	54	54					2
LUPI UPPER 442	A	5665	01	MAKAWAO	120 53	156 15		1240		83					2
MAHINAHINA 466	A	5715	04	LAHAINA	420 57	156 40		715		67					2
MOKUPEA 475	A	6521	04	LAHAINA	420 59	156 37		1290		2					2
NAKALELE FIELD 60 497 A		6645	04	LAHAINA	421 02	156 36		340		43					2
OLINDA 332	A	7040	01	MAKAWAO	120 48	156 17		4127		63					2
OWALU 296.1		7059	04	LAHAINA	420 49	156 37		20		30					2
PAAKEA 350		7194	01	HANA	120 49	156 07		1260		76					C
PAIA 406		7566	01	WAILUKU	120 55	156 23		170		76					2
PANILEIHULU 259.2	A	7674	02	HANA	220 41	156 08		3570		17					2
PEAHI 488.6		7952	01	MAUI	120 54	156 17		830							C
POHAKAFA BRIDGE 307.2 A		8060	03	WAILUKU	320 49	156 31		167		27					2
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	220 41	156 20		6150		17					2
PUGHOKAMOA 2 343	A	P336	01	HANA	120 50	156 13		2980		52					2
PUUNENE 396		8543	03	WAILUKU	320 53	156 27		60		76					2
PUU PAKI 352	A	8553	01	HANA	120 46	156 03		2160							S
SPRECKELSVILLE 400.2		8688	03	WAILUKU	320 54	156 25		85		73					2
TWIN GATES 261.3	A	8742	03	MAKAWAO	320 46	156 23		1310		17					2
UH AGRI RES CNTR 324.5		8743	02	MAUI	220 46	156 20		3050	2	3		MAR			1 2 3 C
UKULELE 333	A	8744	01	MAKAWAO	120 48	156 15		5230		75					2
UKUMEHAME 301	A	8750	04	LAHAINA	420 48	156 35		75		51					2
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	220 39	156 24		1900		26					C
WAHIKULI 364	A	8955	04	LAHAINA	420 54	156 40		580		60					2
WAIHEHU CAMP 484	A	9275	03	WAILUKU	320 55	156 31		320		71					2
WAIHEE VALLEY 482	A	9315	04	WAILUKU	420 57	156 32		300		31					2
WAIKAMOI 449	A	9332	01	HANA	120 52	156 12		1200		74					2
WAIKAMOI DAM 336		9335	01	MAKAWAO	120 49	156 14		4320							C
WAIKAPU 390	A	9376	03	WAILUKU	320 51	156 31		370							C
WAILUA IKI 348	A	9460	01	HANA	120 48	156 09		2630							S
WAILUKU 386	A	9484	03	WAILUKU	320 54	156 30		180		79					2
WAILOPAI RANCH 256	A	9765	02	HANA	220 38	156 12		220		82					2
ISLAND OF HAWAII															
AHUA UMI 75	A	0040	05	N KONA	519 38	155 47		5220		57					2
AMAUULU 89.2	A	0150	02	HILO	219 44	155 09		1490		27		APR			2
CITY OF REFUGE 27.4		0344	04	S KONA	419 25	155 55		15	10	10			MAR		2
HAINA 214		0840	01	HAMAKUA	120 06	155 28		461		91					2
HAKALAU 142		0905	02	S HILO	219 54	155 08		105		89					2
HALEMAUMAU 52	A	1033	03	KA'U	319 24	155 17		3648		48					2
HALEPOHAKU 111	A	1065	02	HAMAKUA	219 46	155 28		9220		41					2
HAWAII VOLCONS NP HQ 54		1303	02	KA'U	219 26	155 16		3971	67	68					1 2 3 C
HAWI 168	A	1339	01	N KOHALA	120 14	155 50		580		81					C
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	219 41	155 10		1600							C
HILO WSO AP 87	R	1492	02	S HILO	219 43	155 04		36	34	38					1 2 3 C
HOLUALOA 70	A	1557	04	N KONA	419 38	155 55		3220		52					2
HOLUALOA BEACH 68	A	1562	04	N KONA	419 37	155 59		14		60			FEB		2
HONAUNAU 27		1665	04	S KONA	419 25	155 53		940		42					2
HONOHINA 137		1701	02	N HILO	219 56	155 09		300		87					2
HONOHU MAUKA 138		1960	02	S HILO	219 51	155 09		1100							C
HONUAULA 71	A	2047	04	N KONA	419 40	155 53		6250		51					2
HUALALAI 72	A	2151	04	N KONA	419 42	155 52		8190		52					2
HUEHUE 92.1	A	2156	04	N KONA	419 45	155 59		1960		77					2
KAALA IKI 12	A	2249	03	KA'U	319 08	155 34		1340		42			12/78		2
KAAWALO 29	A	2327	04	SOUTH KONA	419 30	155 55		1340		39					2
KAHIAWAI MAUKA 3.8		2512	03	KA'U	319 08	155 46		4120							C
KAHUA RCH HOTPS 176.3		2600	01	HAWAII	120 08	155 48		3240							C
KAILUA HEIGHTS 68.15		2686	04	KONA	419 37	155 58		500		1		MAR			2
KAINALIU 73.2		2751	04	N KONA	419 32	155 56		1500	45	50					1 2 3
KALAOA 69.22		2887	04	HAWAII	419 44	155 59		2000		5					2
KALAPANA 1 67.8		2894	02	S HILO	219 20	155 02		10		14					2
KAMAQA 2 5	A	3048	03	KA'U	319 02	155 40		1375		26					2
KAMUELA 192.2		3077	01	S KOHALA	120 01	155 40		2670	44	90					1 2 3

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ISLAND OF HAWAII													
KAPAPALA RANCH 36	A	3300	03	KAUAI	319 17 155 27		2140		94				2
KAPOHO BEACH 93.11		3368	02	HAWAII	119 30 154 49		10	4	5				1 2 3
KAPOHO LANDING 93.5	A	3369	02	PUNA	219 30 154 52		290		18				2
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	120 05 155 39		1080		70				2
KEAAU 92		3872	02	PUNA	219 38 155 02		285		18				2
KEAIWA CAMP 22.1		3925	03	KAUAI	319 14 155 29		1700						C
KALAKEKUA 3 29.11		3945	04	S KONA	415 31 155 55		1530						C
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	219 55 155 21		5280						C
KICLAKAA A & F 6	A	4625	03	KAUAI	319 04 155 38		1925		51				2
KIPA 89.2	A	4632	02	S HILO	219 44 155 09		1490		28		MAR		2
KOHALA MISSION 175.1		4680	01	N KOHALA	120 14 155 46		537		90				2
KOIAWE LOWER 196	A	4685	01	HAMAKUA	120 05 155 38		720		70				2
KONA (KAILUA) 68.3	A	4764	04	N KONA	419 39 156 01		30	31			FEB 12/78	1	C
KONA VILLAGE 93.8		4765	04	N KONA	419 50 155 59		20		13				2
KUKAIAU 272		4815	01	HAMAKUA	120 02 155 21		840		85				2
KUKUIHAELE HIC 199		4928	01	HAMAKUA	120 07 155 35		980		71				2
KUKUIHAELE MILL 206	A	4978	01	HAMAKUA	120 08 155 34		700		88				2
KULANI CAMP 79		5011	02	S HILO	219 33 155 18		5170	21	32				1 2 3
KULANI MAUKA 76	A	5018	05	N HILO	519 35 155 27		8700		29				2
KULANI SCHOOL SITE 76	A	5021	02	S HILO	219 35 155 20		5735		33				2
LALAMILLO FLD OFF 191.1		5260	01	S KOHALA	120 01 155 41		2615						C
LANIHAU 68.2		5370	04	N KONA	419 40 155 58		1530		38				2
LAVA TREE PARK 66.1		5460	02	PUNA	219 29 154 54		650				NOV		C
MAKAHALA 103		5761	02	HAWAII	119 59 155 33		3820		9				2
MAUKA 2	A	6174	03	KAUAI	319 07 155 50		1760		51				2
MAUNA KEA ORS 111.2		6183	02	HAWAII	219 49 155 28		13770	2	9				1 2 3
MAUNA LOA SLOPE ORS		6198	05	HAMAKUA	519 32 155 35		11150	24	25				1 2 3
MIDDLE HOLLALOA 6P.1	A	6268	04	N KONA	419 37 155 58		500		38		JAN		2
MIDDLE PEN 147.1	A	6270	01	N KOHALA	120 06 155 50		1380		16				2
MOAULA 18	A	6407	03	KAUAI	319 11 155 30		600		61				2
MOUNTAIN VIEW 91		6552	02	PUNA	219 33 155 07		1530	43	80				1 2 3 C
NAALEHU 14	A	6588	03	KAUAI	319 04 155 35		800	26	91				1 2 3
NAPOOPOO 28		6697	04	S KONA	419 28 155 55		350		40				2
OOKALA 223		7131	02	N HILO	220 01 155 17		430	60	90				1 2 3 C
OPIHIHOLE 2 24.1		7166	04	S KONA	419 16 155 53		1270	22	23				1 2 3
ORCHID LAND EST 91.5	A	7145	02	PUNA	219 34 155 00		445		17				2
PAUHAU 217		7274	01	HAMAKUA	120 05 155 26		415		90				2 C
PAUULO 221		7312	01	HAMAKUA	120 03 155 22		800		77				2
PAHALA 21	A	7421	03	KAUAI	319 12 155 29		870		88				2
PAHOA 65		7457	02	PUNA	219 30 154 57		670		70				2
PAHOA SCHOOL SITE 64		7465	02	PUNA	219 30 154 57		683				JAN		C
PAPAIOU 144.1		7711	02	S HILO	219 47 155 06		260		81				2
PAPAIOU MAUKA 140.1	A	7721	02	S HILO	219 47 155 08		1285		54				2
PIIHONUA 89	A	8051	02	S HILO	219 44 155 10		1730		55				2
POHAKULOA 107	A	8063	02	HAMAKUA	219 45 155 32		6511						C
PUUKOHOLA HIAU 98.1		8422	05	HAWAII	520 02 155 50		140	4	4				1 2 3
PUU LEHUA 73	A	8460	04	N KONA	419 34 155 49		4880		57				2
PUUHONUA-O-HONAU		8552	04	S KONA	419 25 155 55		15		10		APR		2
PUU WAHAA 94.1		8555	05	N KONA	519 47 155 51		2520						C
SOUTH KONA 2.31		8650	03	HAWAII	319 06 155 45		2650	4	4				1 2 3
UPOLU POINT USCG 159.2		8830	01	N KOHALA	120 15 155 53		61	22	24				1 2 3
WAIKAKA SCD 88.2		9025	02	S HILO	219 40 155 08		1050		28				2
WAIKALOA-ROIS CAS 95.8		9142	04	HAWAII	519 56 155 48		900		5				2
PACIFIC													
EAST OF 180TH MERIDIAN													
ATU*U		4060	03	TUTUILA	14 16S170 41W		265		2				2 C
CANTON ISLAND		4101	02	PHOENIX IS	2 46N171 43W		8	24	24		JUN		1 2 3
FALEASAO VILLAGE		4248	03	TAU*U MAN	14 14S169 31W		16		11				2
JOHNSTON IS WSO AP	R	4320	01	LINE ISLANDS	16 44N169 31W		10	24	24	18			1 2 34
FRENCH FRIGATE SHOALS		4401	07		23 52N166 17W		6	24	24		JUN		1 2 3
MIDWAY SAND ISLAND		4490	07		28 13N177 21W		10	27	27				1 2 3
MALAELOA		4594	03	TUTUILA	14 20N170 46W		139		2				2
PAGO PAGO WSO AP	R	4690	03	AMER SAMOA	14 20S170 43W		10	14	14	2			1 2 34
WESTERN PACIFIC ISL, NORTH OF 12 N													
AGAT		4000	03	GUAM	13 23N144 39E		10		2				2
ANDERSEN AFB GUAM		4025	03	MARIANNA IS	13 35N144 55E		624	25	25				1 2 3
CLARK AFB LUZON		4100	06	PHILIPPINE I	15 11N120 33E		475	26	26				1 2 3
DEDEDO		4156	03	GUAM	13 31N144 51E		350		2				2
HUAMAS		4226	03	MARIANNA IS	13 29N144 48E		254	23	23				1 2 3
GUAM WSMO	R	4279	03	MARIANNA IS	13 33N144 50E		361	23	23	20			1 2 34
INARAJAN AG STN		4275	03	GUAM	13 16N144 45E		30		2				2
INARAJAN - NASA		4278	03	GUAM	13 18N144 44E		280		2				1 2 3

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WESTERN PACIFIC ISL, NORTH OF 12°N													
MANGILAO	4468	03	MARIANNA IS		13 27N144 49E		60		10				2
PITI	4670	03	GUAM		13 27N144 41E		10						C
ROTA	4600	03	MARIANNA IS		14 08N145 09E		47		19			JUL	2
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N145 44E		210				SFP		C
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N145 42E		9	21	21				1 2 3
UMATAC	4885	03	GUAM		13 17N144 40E		190		2				2
WAKE ISLAND WSO AP	4921	01	WAKE ISLAND		16 17N166 39E		12	32	38				1 2 3
YIGO	4950	03	GUAM		13 32N144 53E		525		2				2
CAROLINE AND MARSHALL ISLANDS													
ENEWETAK	4165	01	MARSHALL IS		11 21N162 21E		10	24	27				1 2 3
FALALOP I ULITHI ATOLL	4185	02	CAPOLINE IS		10 02N139 48E		6	24	24				1 2 3
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N154 48E		10	12	17				1 2 3
KOROR WSO	4351	02	CAROLINE IS		7 20N134 29E		94	30	30				1 2 3
KWAJALEIN MISSILE RGN	4375	01	MARSHALL IS		8 44N167 44E		7	27	27				1 2 3
LELE I KOSRAE	4395	02	KOSRAE		5 20N163 02E		7	21	21				1 2 3
MAJURO WSO AP	4460	02	MARSHALL IS		7 05N171 23E		10	24	25				1 2 3
METALANIM	4482	02	PONAPE		6 51N158 19E		30	13	13				1 2 3
NGASANG-BABELTHUAF	4580	01	PALAU ISLAND		7 38N134 39E		10		20				2
PONAPE WSO	4751	02	CAPOLINE IS		6 58N158 13E		123	29	29				1 2 3
SATAWAN ATOLL	4814	02	CAPOLINE IS		5 20N153 44E		9	11	11				1 2 3
TRUK MOEN I WSO AP	4851	02	CAPOLINE IS		7 28N151 51E		5	29	30				1 2 3
WOLEAI ATOLL	4911	01	CAPOLINE IS		7 23N143 55E		7	12	12				1 2 3
YAP WSO AP	4951	02	CAPOLINE IS		9 29N138 05E		44	31	31	2			1 2 34

See Reference Notes Following Station Index

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

AVERAGES: Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1941-1970. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

DAILY SOIL TEMPERATURE TABLES: Included are all soil temperature stations with any data published for the calendar year, whether or not opened or closed during the year. See the reference notes of the monthly issues for information on individual stations as to soil type, ground cover, and degree of slope.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

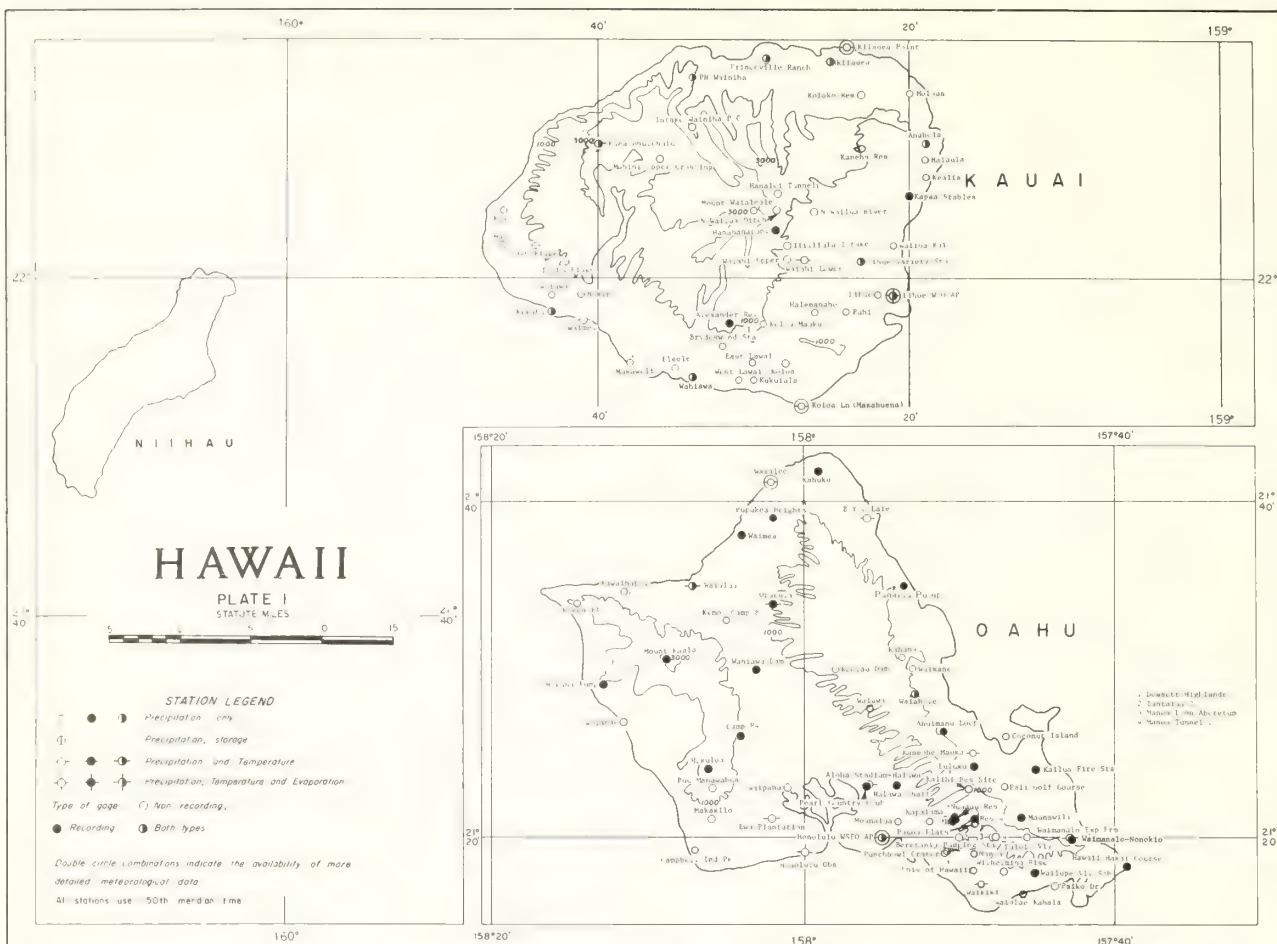
- No record.
- + Also on earlier date (dates) or months.
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

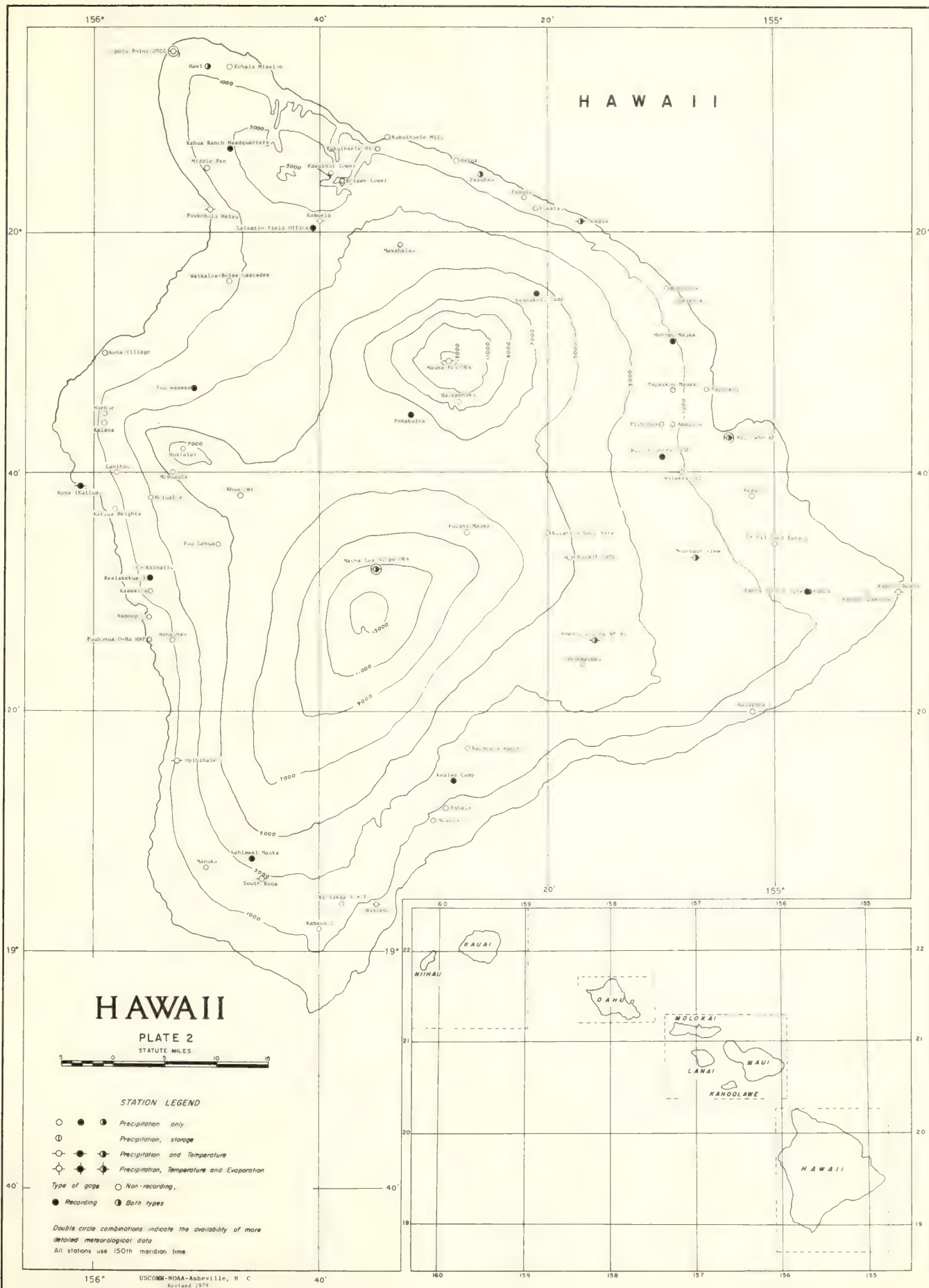
IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

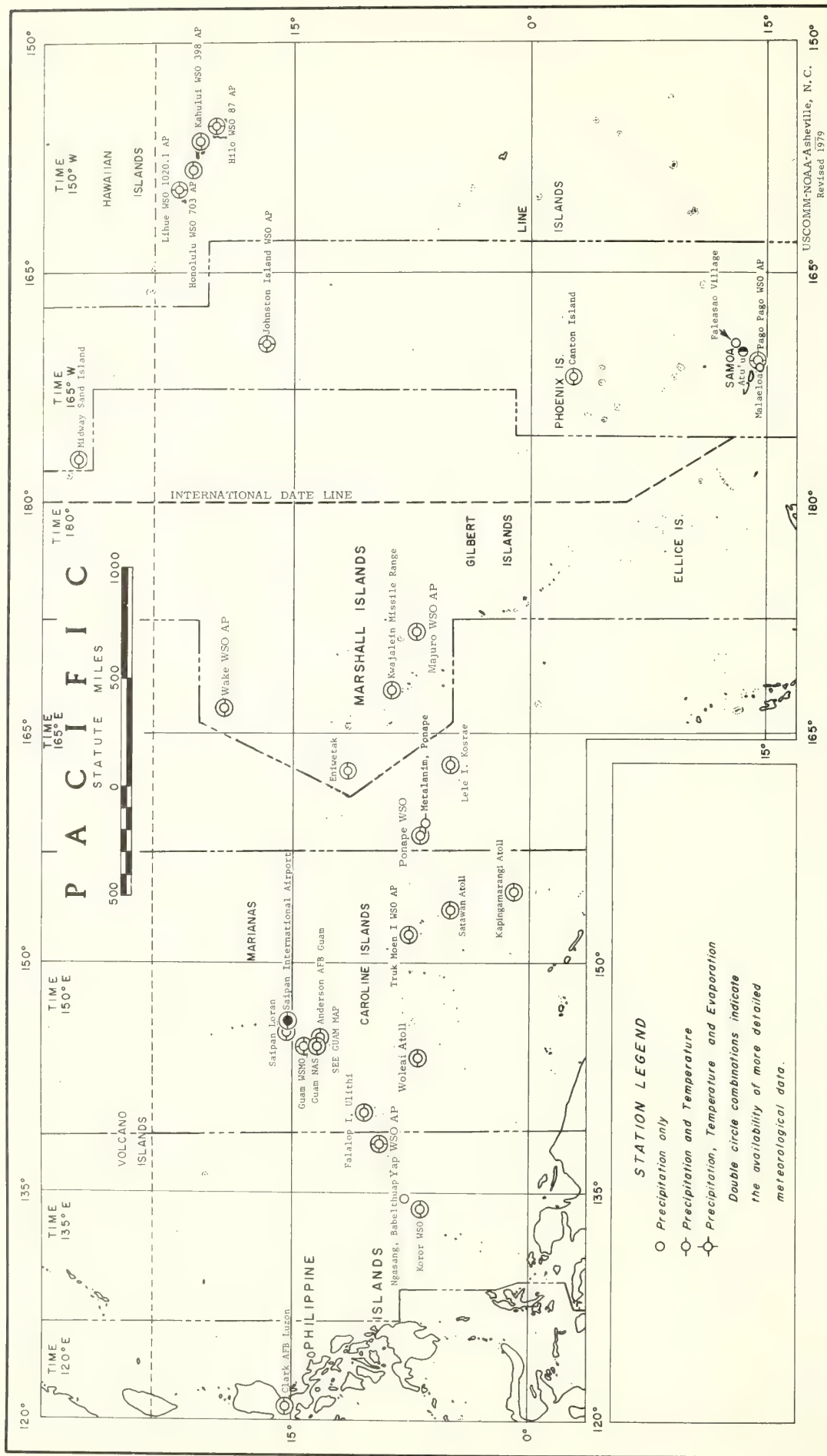
- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
 - † DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL
 - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
 - S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the annual issue of this publication.
- Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.
- The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.
- The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

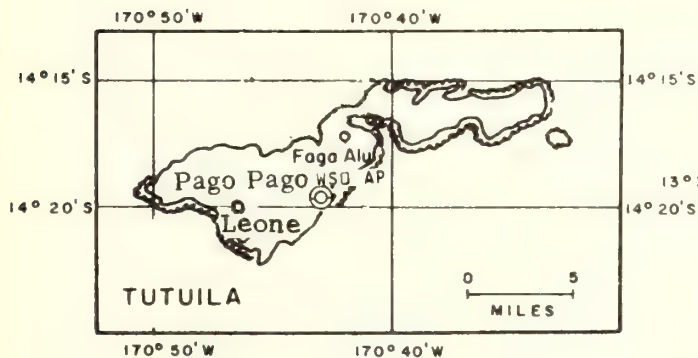
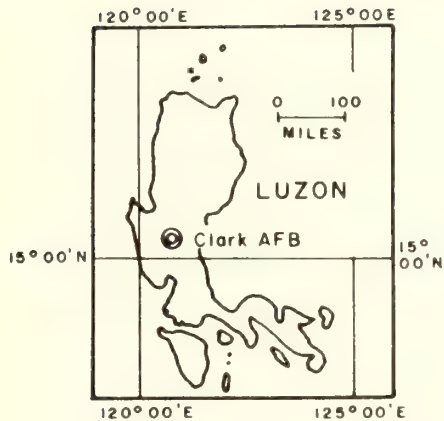
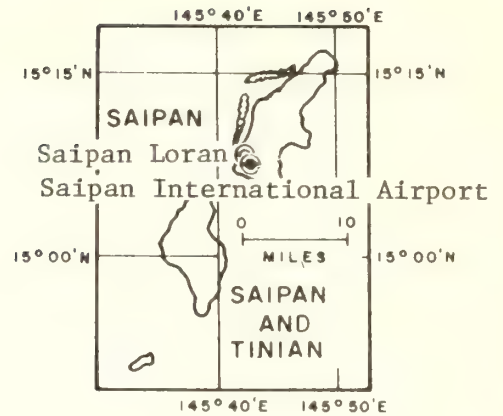
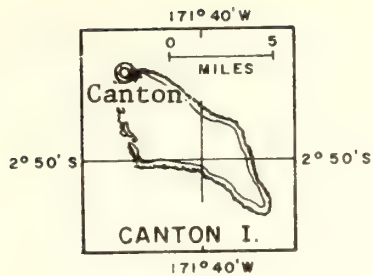
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$5.00 foreign, 45¢ annual summary, 45¢ foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801
ATTN: Publications

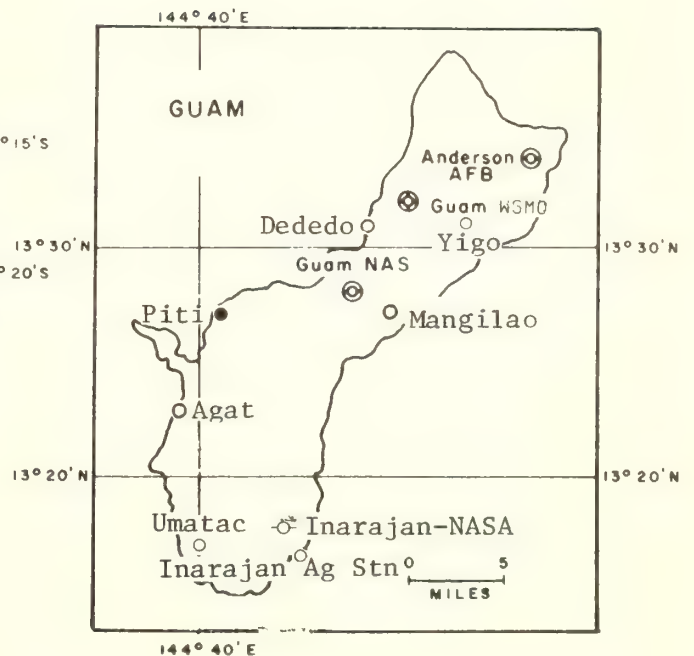


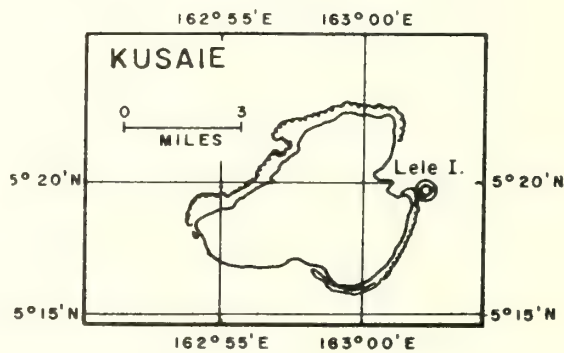
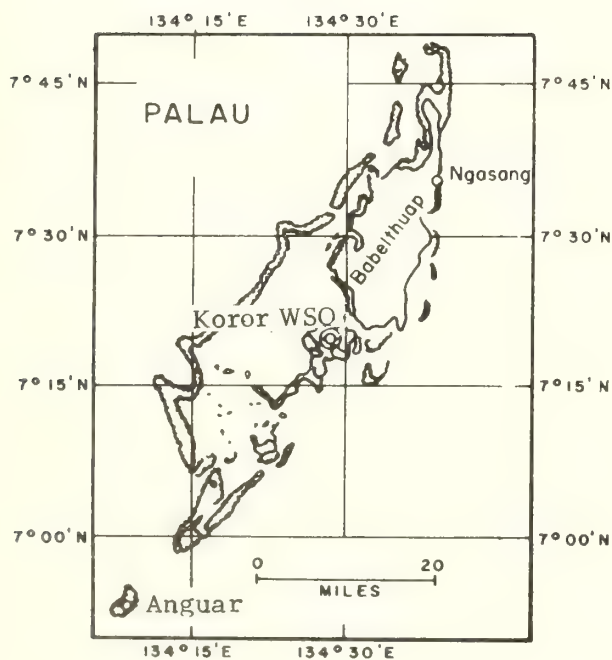
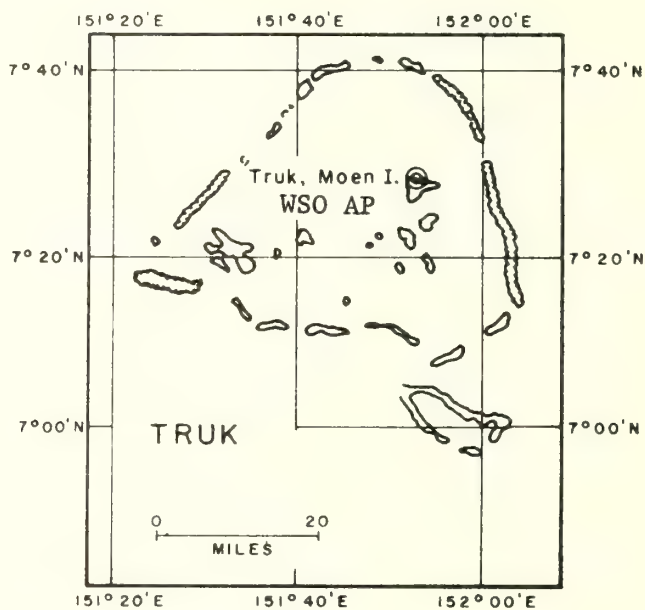
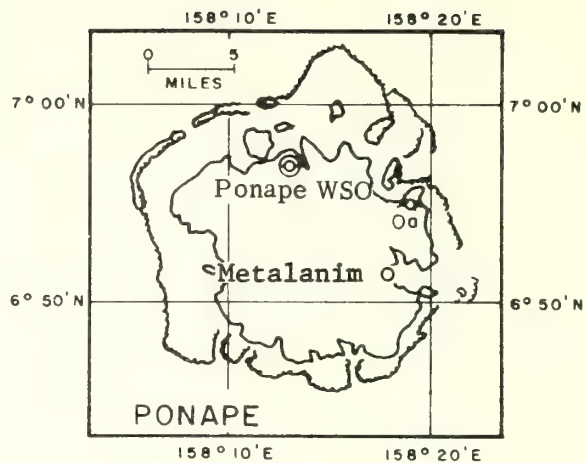
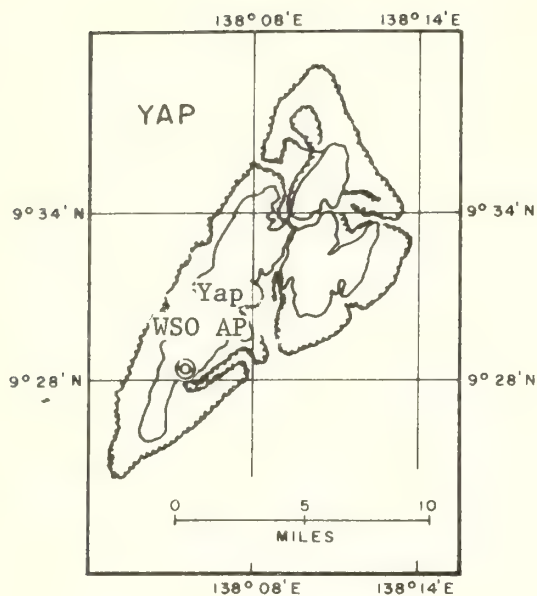




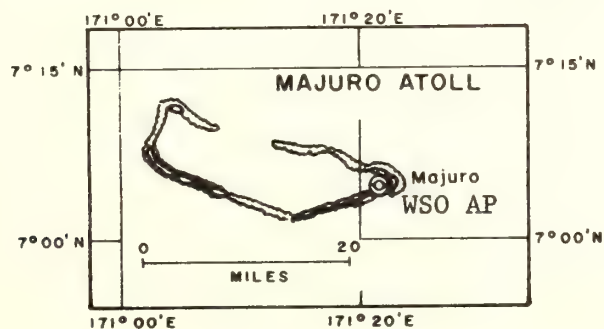
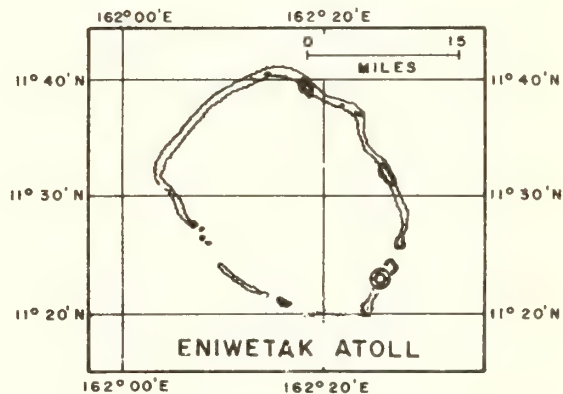
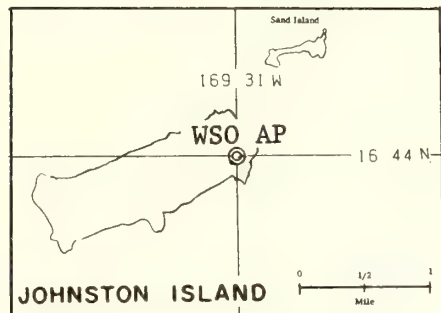
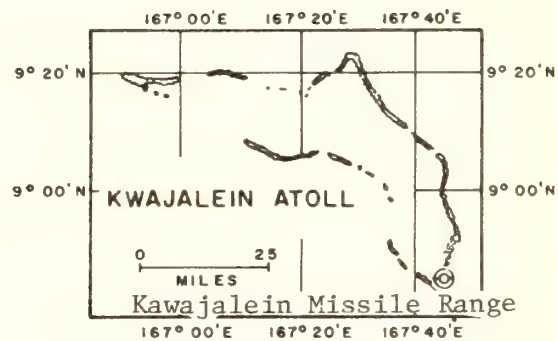
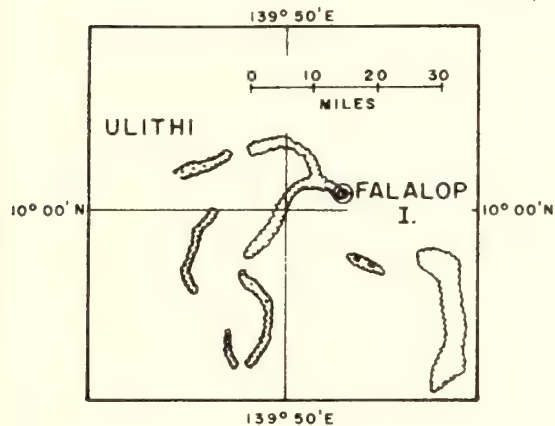
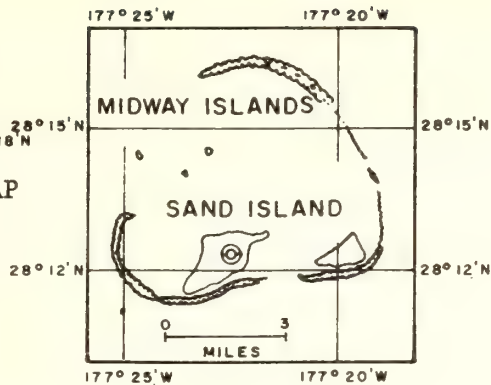
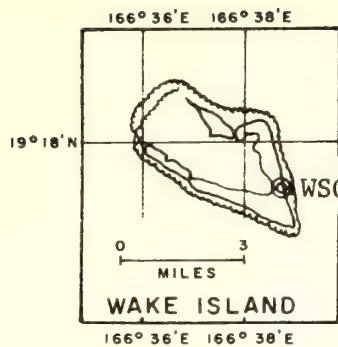


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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	90	DATE	30
LOWEST TEMPERATURE:	KULANI CAMP 79	HAWAII	31	DATE	25+
GREATEST TOTAL PRECIPITATION:	HALEAKALA R S 338	MAUI	43.95		
LEAST TOTAL PRECIPITATION:	KULANI MAUKA 76	HAWAII	.31		
GREATEST 1 DAY PRECIPITATION:	HALEAKALA R S 338	MAUI	18.50	DATE	09

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET			
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01	.09	.10	.49	50	.99	1.00				1.99	2.00 AND OVER	TOTAL
							GREENWICH CIVIL																	
							12	18	00	06														
GUAM WSMO	-	-	-	25	E	18+	-	72	70	83	1	6	6	1	0	0	14	66	6.8					
HILO WSO 87 AP	17	0.5	6.3	25++	18	08	78	72	59	75	7	5	1	1	0	0	14	62	4.5					
HONOLULU WSO 703 AP	26	1.9	9.8	35++	23	08	81	80	66	75	3	6	3	2	0	2	16	56	5.8					
JOHNSTON WSO AP	6	6.0	13.6	31++	3	22+	79	80	72	78	5	11	0	0	0	0	16	71	4.6					
KAHULUI WSO 398 AP	19	3.1	11.7	44	SW	10+	-	78	61	72	3	3	3	1	0	3	13	68	5.1					
KOROR WSO	7	7.6	8.7	22	NE	26+	86	-	80	79	2	10	7	6	2	0	27	41	9.5					
KWAJALEIN MISSILE RGN	6	13.4	14.1	28++	7	20+	81	83	73	77	4	5	9	0	5	0	23	-	7.2					
LIHUE WSO 1020.1 AP	24	3.0	10.4	36	SW	08	77	78	63	73	3	8	3	1	0	2	17	40	5.6					
MAJURO WSO AP	7	10.9	11.6	26	E	16+	80	81	74	77	6	5	9	3	3	0	26	79	8.3					
PAGO PAGO WSO AP	3	2.5	7.1	26++	35	02	92	92	76	83	0	4	19	3	2	0	28	29	7.9					
PONAPE WSO	-	-	-	18	NE	20	84	-	79	79	2	3	9	6	6	0	26	24	9.5					
TRUK, MOEN I, WSO AP	6	10.0	11.0	24	NE	09	83	-	80	79	5	6	6	2	5	2	26	57	9.8					
WAKE ISLAND WSO AP	5	6.0	10.6	31++	8	30	69	67	60	63	2	6	1	0	0	0	9	64	4.3					
YAP WSO AP	6	10.1	10.5	23	NE	08	85	-	78	75	7	9	8	1	0	0	25	53	8.8					



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Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JANUARY 1980

STATION	TEMPERATURE													PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
											MAX.		MIN.								TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	50 OR MORE	1.00 OR MORE	
											32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW											
HAWAII:																											
ISLAND OF KAUAI																											
ANAHOLA 1114	A	62.7M	47.8M	55.3M		71 9	35 19			0	0	0	0	0	0	0	4.63	1.86	9		.0	0			9	2	7
KANALOHULU 1075						89 28	62 26				0	0	0	0	0	0	15.03	3.09	9		.0	0					
KILAUEA POINT 1133																	4.18				.0	0					
KOLOA 936	A																5.43	2.43	11		.0	0					
LIHUE WSO AP 1020.1	///R	79.0	65.5	72.3	1.1	84 18+	57 26			229	0	0	0	0	0	0	6.12	-.12	2.45	10		.0	0		6	3	2
MANA 1016																	4.60	-.34	.93	9	.0	0		11	4	0	
N. WAILUA DITCH 1151	A																9.92	3.11	11		.0	0					3
PH. WAINIHA 1115																	11.84	-1.17	3.55	9	.0	0					
PUEHU RIDGE 1040																	5.73	-.90	1.19	9	.0	0		10	4	1	
WAIHANA 930	A																3.48	-2.32	1.76	11	.0	0					2
WAIHI LOWER 1054		77.9	60.5	69.2		80 21+	53 25			144	0	0	0	0	0	0	6.08	-4.50	2.78	9	.0	0		7	3	2	
WAIHEA 947		80.0	63.5	71.8		84 20+	56 19			216	0	0	0	0	0	0	2.72	-1.86	.77	11	.0	0		7	2	0	
ISLAND				67.2													6.65				.0						
ISLAND OF OAHU																											
ALOHA STADIUM-HALAWA		79.6M	65.8M	72.7M		84 18+	57 26				0	0	0	0	0	0	13.04	5.84	9		.0	0			6	4	
B. Y. U. LAIE 903.1		77.8	63.5	70.7		84 18+	56 26			186	0	0	0	0	0	0	8.54	2.17	11		.0	0		7	4	3	
HONOLULU OBSERV 702.2		80.2	62.4	71.3		83 18+	54 25+			204	0	0	0	0	0	0	9.08	3.66	9		.0	0		9	5	3	
HONOLULU WSO AP 703	R	78.9	64.8	71.9	1.4	82 29+	56 26			222	0	0	0	0	0	0	8.91	3.69	8		.0	0		7	4	2	
KANEHE MAJKA 781		77.4	66.9	72.2	1.1	82 17+	60 26			229	0	0	0	0	0	0	21.91	14.02	6.50	9	.0	0		10	7	4	
KODIAJ DAM 833	A																15.68	4.30	9		.0	0					
MANUA LION ARBORETUM		77.0	62.5	69.8		84 17	55 27			155	0	0	0	0	0	0	13.52	3.80	9		.0	0		10	6	4	
NUUANU RES 4 783																	15.12	5.36	10		.0	0		10	5	3	
OPAELUA 870	A	77.0	62.3	69.7	2.9	84 21+	54 26			156	0	0	0	0	0	0	14.66	3.81	5.98	10	.0	0		10		3	
PALOJO VALLEY 718	R																										
PUU MANAWAHUA 725.6		72.5	60.5	66.5		78 15	54 25+			71	0	0	0	0	0	0	13.76	3.20	9		.0	0		11	7	6	
WAI AHOLE 837	A																20.35	7.63	9		.0	0					
WAIKALE 896.3																											
WAIKALE 847	A	78.8	62.1	70.5	.4	89 15	50 26			178	0	0	0	0	0	0	12.16	7.17	4.84	9	.0	0		13	5	3	
WAIKALE 717.2		81.7	64.3	73.0		86 19+	55 24+			253	0	0	0	0	0	0	9.71	2.51	9		.0	0		9	6	4	
WAIMANALO EXP FM 795.1		78.0	65.4	71.7		84 17	55 26			216	0	0	0	0	0	0	14.67	4.53	9		.0	0		10	4	4	
WAIKALE 750	A																12.25	4.92	9		.0	0					3
ISLAND				70.9													13.56				.0						
ISLAND OF MOLOKAI																											
MOLOKAI AP 524		77.7M	63.0M	70.4M		83 18	56 26+			173	0	0	0	0	0	0		3.70	9		.0	0					
ISLAND				70.4																	.0						
ISLAND OF LANAI																											
LANAI CITY 672	A	72.7M	58.6M	65.7M	.1	80 17+	52 27+			61	0	0	0	0	0	0	14.35	8.41	6.77	9	.0	0			6	4	
ISLAND				65.7													14.35				.0						
ISLAND OF MAUI																											
HALEAKALA EXP FARM 434	A	60.5	40.3	50.4	.6	67 15+	32 24+				0	0	0	2	0	0	11.72	5.20	10		.0	0		6	4	3	
HALEAKALA R S 338																	43.95	18.50	9		.0	0		10	5	3	
HANA AIRPORT 355																	10.77	3.70	9		.0	0					
HONOKOHUA 493	A																6.20	2.50	9		.0	0		6	3	2	
KAAHAPALI AP 453.1		80.1M	62.0M	71.1M		84 18	54 20			197	0	0	0	0	0	0					.0	0					
KAHULUI WSO 398 AP	R	80.7	65.8	73.3	1.6	88 16	55 20			266	0	0	0	0	0	0	14.46	10.87	4.70	10	.0	0		7	4	3	
KAILUA 446		76.7M	61.6M	69.2	1.1	82 22	57 24			142	0	0	0	0	0	0	9.17	.06	3.20	9	.0	0					3
KEANAE 146	A																				.0	0					
KIPAHULU 258																					.0	0					
KULA HOSPITAL 267		68.6	51.4	60.0	-1.5	75 15+	45 26+			2	0	0	0	0	0	0	17.67	12.03	9.22	9	.0	0		8	4	2	
LAHAINA 361		82.0	62.8	72.4	.9	87 15	54 25+			236	0	0	0	0	0	0	11.27	7.57	4.32	9	.0	0		7	5	4	
PAIA 406																	13.60	9.59	4.00	10	.0	0		8	5	3	
WAILUKU 386	A																22.38	17.50	9.74	9	.0	0					3
ISLAND				66.1													14.65				.0						
ISLAND OF HAWAII																											
HAWAII VOLCNS NP HQ 54	R	69.7	48.3	59.0	1.1	79 12	39 21+			6	0	0	0	0	0	0	3.97	-6.64	2.55	9	.0	0		6	2	1	
HILO WSO AP 87	A	81.4	61.8	71.6	.4	88 17	54 21+			213	0	0	0	0	0	0	.91	-8.16	.51	9	.0	0		2	1	0	
HUEHUE 92.1																	16.55				.0	0					
KAINALU 73.2		77.3	60.0	68.7		82 22	54 27+			119	0	0	0	0	0	0	12.69	8.62	4.98	10	.0	0		7	5	4	
KAPAHU BEACH 93.11		82.3	64.8	73.6		88 31	57 21+			272	0	0	0	0	0	0	1.81	.65	9		.0	0		4	1	0	
KEAAU 92																	.67	.26	10		.0	0					0
KONA (KAILUA) 68.3	A																12.14	6.44	4.10	10	.0	0		8	6	4	
KIPAHULE HIF 149																	3.26	1.89	13		.0	0		6	1	1	
KULANI CAMP 79		66.5M	42.6M	54.6M		74 15	31 25+			0	0	0	3	0	0	0					.0	0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JANUARY 1980

STATION	TEMPERATURE													PRECIPITATION										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											MAX.	MIN.							TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
												30° OR ABOVE	32° OR BELOW	32° OR BELOW										
HAWAII																								
PAHALA 21	83.5	62.9	73.2		90	30	51	25+		261	1	0	0	0	2.58		1.47	9	.0	0		3	2	1
PUUKOHOLA HEIAU 98.1	73.5	53.9	63.7		84	13	46	25		39	0	0	0	0	6.32		2.17	10	.0	0		7	3	3
SOUTH KONA 2.31															3.08		1.28	6	.0	0		4	3	1
MAIAKEA SCD 88.2															.99		.40	10	.0	0		4	0	0
ISLAND			66.3												5.41				.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JANUARY 1980

STATION	TEMPERATURE												PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	DATE	SNOW, SLEET			NO. OF DAYS				
									MAX.	MIN.	32° OR BELOW	32° OR BELOW					32° OR BELOW	32° OR BELOW	TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
PACIFIC																								
EAST OF 180TH MERIDIAN																								
AASUFOJ													12.08		2.74	2	0	0	0	14	7	3		
AFONO																0	0	0	00	0	0	0		
ATU'U													14.56		1.68	7	0	0		22	12	6		
FALEASAO VILLAGE													.34	- 2.25	.09	8	0	0		0	0	0		
JOHNSTON IS WSO AP	R	81.5	74.0	77.8	1.0	84 28+	69 24	404	0	0	0	0					0	0		0	0	0		
MIDWAY SAND ISLAND													9.36		1.23	21	0	0		20	9	1		
MALAELOA													9.73	- 2.54	1.08	9	0	0		24	5	2		
PAGO PAGO WSO AP	R	87.1	75.1	81.1	.8	90 13+	72 25	507	2	0	0	0					0	0		0	0	0		
WESTERN PACIFIC ISL, NORTH OF 12 N																								
AGAT													1.46	- 3.41	.73	2	0	0		5	1	0		
ANDERSEN AFB GUAM		82.3	75.9	79.1	.9	84 21+	71 23	446	0	0	0	0					0	0		1	1	0		
CLARK AFB LUZON		84.8	71.4	78.1	.3	90 29	68 23	410	1	0	0	0	.93	.34	.85	30	0	0		0	0	0		
DEDEDU													1.89		.38	1	0	0		7	0	0		
GUAM NAS																								
GUAM WSMO	R	83.2	69.5	76.4	.9	86 31+	59 23	358	0	0	0	0	2.07	- 3.09	.72	2	0	0		7	1	0		
INARAJAN AG STN													2.95		.38	7	0	0		15	0	0		
INARAJAN - NASA		84.8	73.1	79.0		86 19+	68 31	441	0	0	0	0	2.06		.56	19	0	0		6	1	0		
MANGILAO													1.92		.50	2	0	0		8	1	0		
SAIPAN LORAN																								
UMATAC													.53		.10	3	0	0		1	0	0		
WAKE ISLAND WSO AP	R	82.4	72.8	77.6	.6	88 3	66 29	400	0	0	0	0	.38	- .70	.12	4	0	0		1	0	0		
YIGO													3.02		.70	30	0	0		10	2	0		
CAROLINE AND MARSHALL ISLANDS																								
ENWEHETAK																								
FALALOP I ULITHI ATOLL																								
KAPINGAMARANGI ATOLL																								
KOROR WSO	R	86.7	74.8	80.8	.4	89 23+	72 29+	496	0	0	0	0	8.72	- 2.07	1.45	29	0	0		15	8	2		
KWAJALEIN MISSILE RGN	R	86.5	77.2	81.9	.7	89 8	72 20	528	0	0	0	0	8.45	4.71	1.51	4	0	0		14	5	5		
LELE I KOSRAE																								
MAJURO WSO AP	R	86.3	76.5	81.4	.6	88 18+	72 11	519	0	0	0	0	8.11	- .85	1.34	13	0	0		15	6	3		
METALANIM		85.7	71.6	78.7		89 1	69 26+	431	0	0	0	0	10.22		1.95	1	0	0		18	8	4		
NGASANG-BABELTHUAP																								
PONAPE WSO	R	88.0	75.7	81.9	1.3	92 23	73 26+	531	6	0	0	0	14.01	2.26	1.72	9	0	0		21	12	6		
SATAWAN ATOLL																								
TRUK MOEN I WSO AP	R	85.3	77.0	81.2	.2	87 14+	73 11	507	0	0	0	0	13.91	5.32	2.18	22	0	0		15	9	7		
WOLEAI ATOLL																								
YAP WSO AP	R	86.2	75.1	80.7	.3	88 11+	72 9+	496	0	0	0	0	2.32	- 6.12	.67	26	0	0		9	1	0		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
JANUARY 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
JANUARY 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JANUARY 1980

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
PAUHAU 217	2.49		.03		.01					.60	.66	.31	.05	.07							.38		.11	.25	.02									
PAUHILO 221	4.25		.15		.13					.62	.76	.22	.08	.30							.31		.15	.30	.23									
PAHALA 21	2.58							T	T	1.47	.97	.03		.11																			T	
PAHOA 65	4.70				.15	*	*	.10		1.05	.40	2.45	*	*	.22						*	*	.03	.20	.03									
PAPAIOU 144.1	.55				.04					.03	.24	.05	*	*	.12			.07					.03											
PAPAIOU MAUKA 140.1	.74					*	*			.04	*	*		*		.70																		
PIIOMUA 89	3.60	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.60
PUUKOHOLA HEIAU 98.1	6.32	.21	.01	*						1.03	2.17	2.11	.01								.30	.29	.18								.01			
PUU LEHUA 73	19.27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	19.27	
PUUOHONUA-O-HONAIUNAU	7.63	.12								.80	4.93	1.05	.40		.01						.11										*	*	.21	
SOUTH KONA 2.31	3.08									.19	1.28	.63	.94							.02														
UPOLU POINT USCG 159.2	10.23		.05							.02	3.50	3.00	2.98	.03						.05														
WAIKAKA SCD 88.2	.99				.03	.01	.01			.15	.40																							
WAIKALOA-BOIS CAS 95.8	6.44				.21			.11		.49	1.61	2.42	.42		.28	.01				.36	*	*	.12								.73	.03	.05	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JANUARY 1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
AASUFOU																																
AFONO																																
ATU'U																																
FALEASAO VILLAGE																																
JOHNSTON IS WSO AP	R	14.56	17	16	.01		.84	1.68	.48	.12	T			.07	.14	.23	.86	1.03	.41	.16	1.20	.06	.74	1.49	.21	1.12	1.05	.64	.01	.29	.51	.89
		34					.02		.09					T		T	.02			.03	1.20	.04	.74	1.49	.21	1.12	1.05	.64	.01	T	.02	.01
MIDWAY SAND ISLAND																																
MALAELO																																
PAGO PAGO WSO AP	R	9.36	47	94	50	10		.39	.51	.60	14	11	.05	.66	.04	.37	.05	.93		.18	1.23	T	.57	.10		.02	.32	.04	.15	.35	.64	
	R	9.73	17	62	.35	.01	13	.65	.34	.15	1.08	40	.12	.06	.79	.27	.41	.05	.41		.37	1.10	.17	.49	1.04	.40	.21	.14	.35	.05	.38	.07
WESTERN PACIFIC ISL. NORTH OF 12°N																																
AGAT																																
ANDERSEN AFB GUAM																																
CLARK AFB LUZON																																
DEDECO																																
GUAM NAS																																
GUAM WSO	R	2.07	.24	.72				T	10	.18	.19	.09				.01				.04	.01				.01	.36			.01	.11		
INARAJAN AG STN		2.95		.04	10	.15	.26	.38			.12	.23			.19	.20	.01	.16	.26			.28	.11		.20	.15			.11			
INARAJAN - NASA		2.06	.28	.19	.29			T			.03	.01	.23							.56	.07				.12	.07			.09	.07	.05	
MANGILAO		1.92	.25	.50	.27						.03	.06	.12								.14	.12				.10	.20		.04	.05	.04	
SAIPAN LORAN																																
UMATAC																																
WAKE ISLAND WSO AP	R	.53			10	.02	T	.05	.03	T	.08	.06	T	.04		T	.01	.03			T	.04	T		.03	.01	T			.02	.01	
YIGO	R	3.02	.33	.38		.12	.39		.03	.02			.20	.08							.04	T	.10		.03	.06	T	.16	.10	.50	.70	
CAROLINE AND MARSHALL ISLANDS																																
ENENETAK																																
FALALOP I. ULITHI ATOLL																																
KAPINGAMARANGI ATOLL																																
KOROR WSO	R	8.72	.61	.12	.58	.58	.09	.13	.04	.01	.07	.35	.02	.05	.76	T		.59	.48	1.05	T	.07		.17	.08	.80	.26	.18	.23	.04	1.45	.08
KWAJALEIN MISSILE RGN	R	8.45	.38	.01	.49	1.51	1.11	1.27	1.02	T	.13	1.17			.07	.17	T	T	.21	.44	1.06	.01	.17	.08	.80	.26	.18	.23	.04	1.45	.08	
LELE I. KOSRAE																																
MAJURO WSO AP	R	8.11	.45	.23	.60	.81	.15	.55	T	T	.03	.38	1.31	1.07	1.34	.10	.04	.01	.20	.20	.01	.16			.46	T	.01		T	T	T	
METALANIH		10.22	1.95	.04	.26	.12	.03	.52	.09	.50	.07	1.15	1.16		.02	.53	.60	.45	.09	.12	.13	.13	.18	.23		1.26			.15	.04	.40	
NGASANG-BABELTHUAP																																
PONAPE WSO	R	14.01	1.02	1.19	.16	.15	.75	1.03	.36	1.47	1.72	.69	T	T	.03	.73	1.24	.55	.09	.28	.27	.06	.29	.15		.76			.22	.26	.54	
SATAMAH ATOLL																																
TRUK MOEN I. WSO AP	R	13.91	1.16	1.32	1.13	.01	.75	.26	.33	1.68	.02	.17	2.04	.09	.04	T	1.21	.37	.07	.13		T		2.18	T	T	.09		.10	.76		T
WOLEAI ATOLL																																
YAP WSO AP	R	2.32	.19	T	.12	.01	.26	.04	T	.07	.20	.19	.02	.15				T	.17	.04	.03	.01		T	T		T	.67	.12	.02	T	.01

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JANUARY 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	63 38	64 38	61 39	64 54	60 41	61 53	66 56	71 55	68 55	63 54		64 59	65 50	65 54	65 57	60 55	64 58	65 40	58 49	50 42	56 44	59 37	60 39	63 37	63 43	66 55	62 57	67 54	62 47	62.7 47.8		
KILAUEA POINT 1133	MAX MIN	74 65	77 68		80 70	76 63	77 63		84 71	80 69									80 66	77 63	82 67	74 64	70 63	73 66	75 64	76 62	79 66	89 69	88 72	83 67	80 65		
LIHUE WSO AP 1020.1	MAX MIN	78 62	75 68	78 70	78 61	80 62	80 67	78 74	80 74	77 70	82 69	81 64	81 63	84 68	80 66	82 68	83 69	84 65	78 60	82 65	77 61	77 66	71 54	77 56	79 54	63 56	75 56	76 56	79 61	76 54	83 66	76 61	79.0 65.5
NIU RIDGE 1035	MAX MIN	71 62	78 57	80 55	77 56	77 56	80 61	79 56	68 67	73 67	79 64			78 59	81 65	79 66	79 66	76 57	77 60	79 52	67 56	66 54	73 54	74 56	75 56	76 56	78 54	79 66	77 63	73 61	75.8 59.5		
WAIHAI LOWER 1054	MAX MIN	77 55	76 57	76 58	78 59	77 58	78 58	79 64	77 65	79 66	79 65	79 66	80 65	80 64	79 64	80 64	80 62	83 62	79 54	79 58	80 60	79 64	80 56	79 56	79 56	75 53	75 58	77 57	78 59	78 63	79 68	78 59	77.9 60.5
WAIHEA 947	MAX MIN	78 66	79 62	79 61	83 60	81 61	80 59	79 67	80 67	79 69	80 70	81 66	80 66	81 64	80 68	80 66	81 63	82 62	83 62	84 56	84 63	81 64	78 59	77 59	74 58	76 62	75 62	79 61	80 68	83 71	83 64	80 59	80.0 63.5
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	79 63	79 65	81 68			80 61	81 69	78 70	81 70	76 70		81 64	83 69	82 68	84 68	84 69		80 70			80 59	73 61	73 60	74 61	57 57		80 69	81 69	82 69	79 68	74 65	79.6 65.8
B Y U LAIE 903.1	MAX MIN	77 66	75 66	76 67	76 69	76 70	74 59	77 64	79 62	81 67	80 61	79 62	81 60	82 63	79 69	79 66	84 63	84 64	79 61	78 57	77 60	76 63	72 61	72 66	78 60	80 63	79 66	78 66	74 65	77.8 63.5			
HONOLULU OBSERV 702.2	MAX MIN	82 61	82 61	82 58	81 60	82 59	80 59	78 64	81 69	80 69	82 69	78 69	80 70	81 62	83 67	83 66	82 65	83 67	81 57	79 58	81 61	79 58	74 56	76 54	77 55	78 57	81 65	82 68	82 66	79 66	80.2 62.4		
HONOLULU WSO AP 703	MAX MIN	80 63	80 65	82 63	81 67	81 64	77 61	80 70	79 72	81 71	80 71	80 65	79 63	81 68	82 71	81 67	82 68	81 63	78 59	79 59	80 63	73 61	74 58	74 61	76 56	79 62	80 70	82 68	77 68	76 63	76 63	78.9 64.8	
KANEIHE MAUKA 781	MAX MIN	78 68	77 68	77 68	77 69	78 67	75 65	72 66	76 69	77 67	76 69	76 67	79 66	82 67	82 72	80 69	82 69	81 69	80 64	80 65	77 64	77 64	77 64	75 64	72 64	74 60	75 61	79 68	79 70	80 68	75 65	77.4 66.9	
MANOA LYON ARBORETUM	MAX MIN	78 60	77 61	77 64	76 62	78 61	77 60	72 63	76 66	74 69	78 67	72 61	77 61	78 62	80 67	81 65	80 66	84 67	81 65	79 65	78 58	77 61	73 57	73 60	73 56	76 55	77 60	77 63	74 66	80 66	74 65	77.0 62.5	
OPAEULA 870	MAX MIN	73 64	73 62	74 63	74 63	75 59	72 63	74 65	71 69	84 64	71 66	80 66	79 61	84 65	84 64	82 65	81 68	84 64	77 55	75 57	84 64	70 57	72 60	72 55	76 55	77 54	82 60	80 65	82 65	80 63	77.0 62.3		
PUU MANAWAHUA 725.6	MAX MIN	73 58	74 60	74 61	73 59	72 59	70 62	71 63	72 65	75 62	70 64	73 63	73 60	76 63	75 65	78 64	77 64	74 58	75 58	68 62	68 56	68 54	68 54	69 54	72 60	71 63	72 64	72 63	73 61	73 58	72.5 60.5		
WAIKALEE 896.3	MAX MIN																																
WAILUA 847	MAX MIN	76 64	76 64	78 60	80 59	76 54	78 58	78 64	81 68	79 73	84 71	80 70	80 62	82 58	80 64	89 69	82 66	83 66	85 66	76 54	76 54	76 60	77 65	73 58	74 53	76 55	72 50	78 58	78 66	83 64	81 68	75 65	78.8 62.1
WAIKIKI 717.2	MAX MIN	81 61	81 61	81 61	81 66	81 64	82 62	78 68	83 69	80 72	83 70	79 69	84 72	83 63	85 64	85 68	85 67	86 66	82 60	82 60	83 64	82 59	77 55	77 55	78 55	79 62	80 66	81 69	85 68	80 68	81.7 64.3		
WAIMANALO EXP FM 795.1	MAX MIN	78 61	78 67	78 67	77 69	77 69	77 62	75 67	79 69	77 71	78 73	79 69	79 67	79 68	82 66	84 66	81 66	80 66	80 62	78 59	78 65	78 62	73 60	75 63	75 55	76 57	77 57	77 68	77 70	82 67	75 64	80.0 65.4	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	76 66	77 65	75 67	75 67	78 60	79 60	74 62	77 64	76 60	75 60	76 60		79 64	76 65	82 67	82 65	82 65	83 68	79 64	80 56	80 61	75 62	74 59	74 61	77 61	74 56	77 57	79 63	80 68	79 69	81 67	77.7 63.0
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	76 59	74 58	75 60	75 59	75 54	74 58	73 62	74 64	73 64	74 68	74 66	75 64	75 55	75 63	79 60	79 62	80 61	80 64	76 62	76 54	77 60	75 55	70 56	70 59	71 55	72 54	74 53	75 58	75 62	78 64	74 62	74.9 59.8
LANAI CITY 672	MAX MIN	73 55	69 59	72 61	70 58	69 54	68 56	70 57	71 64	72 64	73 65	72 65		79 55	78 62	80 61	80 63	73 61	74 56	78 57	71 54	68 55	66 55	66 52	69 52	69 52	74 54	76 61	78 63	77 61	77 58	72.7 58.6	
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	63 37	66 39	66 42	67 43	62 35	53 34	59 41	60 43	55 35	55 41	55 45	62 51	66 47	67 48	66 44	61 42	59 42	57 37	61 40	64 40	60 38	55 32	56 32	61 38	60 40	58 42	59 43	61 43	64 40	61 40	60.5 40.3	
HANA AIRPORT 355	MAX MIN																																
KAANAPALI AP 453.1	MAX MIN	80 62	79 62	79 64	81 63	79 58	80 59	79 63	82 69	78 78	80 69	80 71	82 59	81 59	83 65	83 64	83 65	84 67	83 64	81 54	82 58	80 59	76 59	74 58	75 58	75 58	79 56	80 57	81 58	83 60	80 66	80.1 62.0	
KAHULUI WSO 398 AP	MAX MIN	78 60	80 68	81 69	81 69	79 61	79 59	83 70	82 73	80 73	81 74	82 75	85 65	81 60	84 70	85 70	88 68	83 66	82 67	78 59	83 55	82 63	75 67	77 64	77 64	76 63	79 58	81 63	83 62	80 70	77 66	80.7 65.8	
KAILUA 446	MAX MIN	78 62	73 61	72 61	73 63			77 59	77 61	77 64	77 67	79 68		81 63	80 63	78 66	81 62	78 62	77 59	77 58	81 60	82 58	68 52	69 58	69 58	72 56	77 60	78 62	79 62	79 62	79 62	76.7 61.6	
KEAMAKAPU BEACH 260.2	MAX MIN	81 58	82 63	81 59	83 59	84 58	83 57	81 68	83 70	78 71	79 71	83 72	82 70	83 59	82 62	83 67	84 65	86 64	84 67	82 62	81 55	82 59	81 62	76 58	77 58	78 59	79 57	80 58	79 60	81 65	84 67	82 65	81.3 62.8
KULA BRANCH STN 324.5	MAX MIN	67 50	67 47	69 49	69 48	68 49	67 52	74 48	77 56	77 60	77 62	77 61	70 60	72 58	70 56	71 55	72 57	72 57	71 52	69 52	68 54	69 47	62 46	63 44	65 43	65 48	67 51	72 55	72 54	69 56	69 56	69 56	69.2 53.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JANUARY 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KULA HOSPITAL 267	MAX MIN	66 51	67 50	69 50	67 51	67 49	68 52	67 50	69 50	67 51	67 52	68 53	67 53	75 54	72 55	75 57	74 58	72 56	72 56	68 51	68 52	70 53	72 52	62 49	62 46	65 45	64 45	66 46	72 46	70 46	70 56	70 57	68.6 51.4
LAHAINA 361	MAX MIN	84 62	83 63	84 62	84 59	82 61	80 63	83 63	83 63	82 64	79 72	84 71	83 62	85 68	87 69	85 66	85 65	74 69	84 58	83 58	82 61	77 62	76 58	80 54	80 54	79 59	81 61	83 63	84 63	84 63	79 67	82.0 62.8	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	74 48	62 46	69 49	66 48	64 46	66 48	65 47	67 55	64 42	66 60	68 61	79 56	75 55	76 48	78 57	75 52	74 54	71 54	70 39	71 39	75 39	69 47	66 45	62 43	65 41	68 48	65 45	68 45	74 48	75 45	75 46	69.7 48.3
HILO WSO AP 87	MAX MIN	78 64	78 64	78 63	79 62	78 62	80 59	82 58	85 66	80 70	85 67	86 69	82 68	83 70	87 63	85 63	83 66	88 63	80 60	79 54	80 57	84 54	77 62	75 60	76 59	75 58	80 57	81 60	84 58	83 56	87 62	84 62	81.4 61.8
KAINALIJI 73.2	MAX MIN	80 54	72 58	77 58	77 59	78 58	74 60	77 60	80 64	78 68	77 64	77 69	77 67	80 64	78 62	80 64	80 62	80 62	78 60	78 57	77 56	82 60	72 58	77 55	72 55	76 54	77 54	76 58	77 58	76 58	76 61	77.3 60.0	
KAMUELA 192.2	MAX MIN	72 54	73 51	68 55	69 56	66 52	70 47	70 46	74 48	78 61	71 67	74 66	76 60	78 58	79 54	79 52	78 53	74 50	74 50	69 50	71 43	71 41	72 44	71 51	63 51	60 46	66 44	66 46	71 44	75 46	73 50	71.7 51.3	
KAPOHO BEACH 93.11	MAX MIN	81 65	81 66	80 66	81 66	81 66	83 61	81 63	82 65	80 70	81 69	81 73	86 71	85 71	86 70	82 72	87 72	85 66	84 62	81 57	83 57	79 60	78 63	77 61	79 61	78 60	80 62	86 61	82 61	86 61	88 62	82.3 64.8	
KONA (KAILUA) 68.3	MAX MIN				86 66	85 65	86 67	86 67	86 66	83 67	87 67	85 68	84 66		87 67			88 66								87 68			88 69		87 68		
KULANI CAMP 79	MAX MIN	73 39	68 35	67 36	63 36	58 43	58 43	40 28	65 39	65 59	66 58	66 56	69 52	66 51	73 46	74 49	72 52	67 44	68 44	68 43	68 35	70 38	67 32		65 31	57 31			62 42	68 42			66.5 42.6
MAUNA KEA OBS 111.2	MAX MIN	50 33	52 33		40 23	40 23	37 23	28 23									40 23	40 25	35 23	41 23	41 30	40 20		40 22	40 21	42 22	42 22	35 27	40 37		50 42	43 30	
MAUNA LOA SLOPE OBS	MAX MIN	52 37	53 33	50 33	51 32	50 30	46 31	46 33	46 37											50 34	54 36	56 32	43 27	44 29	49 31	53 35	52 34	46 34	54 37	57 37	55 42	61 43	
MOUNTAIN VIEW 91	MAX MIN	81 61	76 55	73 57	74 57	72 58	74 56	76 56	80 56	78 63	79 64	79 68	81 60	83 60	83 60	85 59	82 61	79 61	80 58	80 48	79 49	80 49	78 50	73 58	70 53	73 48	71 48	77 49	78 56	82 55	83 55	82 56	78.1 56.3
NAALEHU 14	MAX MIN	79 61	76 60	83 58	77 61	74 59	74 60	78 59	80 61	76 68	77 71	77 68	83 68	82 66	85 63	80 63	79 66	79 65	80 62	77 63	75 52	80 52	77 54	79 60	76 57	75 59	75 63	77 60	77 58	78 62	78 64	78.1 61.6	
OOKALA 223	MAX MIN	80 63	76 65	75 65	76 65	76 64	76 61	79 61	79 65	79 69	76 70	81 72	85 70	77 68	80 66	80 66	80 65	79 65	80 66	77 59	77 57	75 60	79 62	74 60	69 60	74 60	73 63	74 61	77 61	79 62	78 63	79 65	77.4 63.9
OPIHIHALE 2 24.1	MAX MIN	77 56	75 55	78 55	76 56	76 53	79 55	86 61	82 67	75 66	79 67	81 65	81 61	76 58	80 57	81 60	80 56	79 55	75 57	81 52	78 50	80 51	74 52	77 51	66 52	73 53	79 53	76 55	81 58	80 57	78 57	78.0 56.5	
PUUKOHOLA HEIAU 98.1	MAX MIN	85 63	85 62	84 62	84 66		83 62	83 66	88 61	81 62	84 72	82 70	82 64	84 66	85 61	84 67	89 62	83 66		84 70	82 61	82 61	85 65	79 59	51 51	81 51	81 58	80 58	80 58	82 63	90 64	84 64	83.5 62.9
SOUTH KONA 2.31	MAX MIN	75 51	74 52	69 49	70 49	73 51	66 50	72 51	77 61	69 64	68 64	69 67	75 67	84 60	80 57	83 61	79 60	75 55	75 54	77 54	74 50	77 47	74 52	74 48	71 50	68 46	66 51	73 48	70 50	77 51	74 52	71 53	73.5 53.9
UPOLU POINT USCG 159.2	MAX MIN	81 66	84 66	78 68	78 66	78 66	78 64	80 66	82 67		83 71	79 70	81 69		83 70	84 70	82 69	81 69		82 65	78 64	79 65	81 65	76 62	74 61	74 61	79 63	79 63	79 65	80 67	82 68	79.6 66.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JANUARY 1980

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	82 75	80 74	83 77	83 76	82 76	81 71	82 75	82 75	84 77	83 76	81 74	81 72	84 76	81 75	82 74	83 76	83 76	83 75	82 74	82 74	79 70	78 72	80 72	80 69	82 73	81 75	83 75	84 76	81 74	77 70	78 71	81.5 74.0
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	87 76	87 75	88 75	89 76	88 76	87 75	88 75	84 76	86 74	89 73	90 77	88 75	90 75	85 77	86 76	89 76	87 76	87 75	88 75	85 74	86 74	87 73	83 73	85 73	87 72	87 75	88 75	87 77	88 75	87 78	89 75	
WESTERN PACIFIC ISL, NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	84 77	83 76	84 77	82 77	81 77	82 76	83 76	81 74	82 74	80 75	82 75	81 76	83 76	83 77	83 77	82 76	83 77	83 77	83 78	83 77	84 77	82 73	81 71	83 76	80 75	81 76	83 76	82 76	82 76	82 77	83 74	82.3 75.9
CLARK AFB LUZON	MAX MIN	84 72	86 73	86 70	84 73	84 72	84 70	81 70	84 70	86 70	84 70	82 72	88 70	86 72	86 73	82 72	84 70	82 72	84 72	86 70	86 70	86 70	86 70	86 70	84 68	82 72	86 72	84 73	88 72	90 75	86 73	86 73	84.8 71.4
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	83 70	84 68	83 70	83 71	83 73	82 71	83 70	83 67	82 69	81 70	82 72	82 72	82 71	85 67	84 67	82 70	83 73	83 74	83 75	84 71	85 70	86 61	84 59	85 63	81 71	82 72	82 73	83 72	83 69	84 68	86 63	83.2 69.5
INARAJAN - NASA	MAX MIN	85 75	85 74	85 75	85 77	84 77	84 77	84 77	84 75	85 75	85 72	85 75	85 72	86 73	85 74	86 74	84 74	85 77	85 72	86 73	84 71	85 71	86 70	84 70	85 69	84 73	84 70	85 75	85 72	85 72	85 71	84 68	84.8 73.1
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	86 78	87 76	88 78	81 72	85 75	87 77	85 74	80 72	82 71	78 72	80 71	84 71	81 71	81 73	83 72	87 74	85 74	83 72	81 71	82 71	80 74	84 75	83 76	84 74	83 75	81 74	82 72	76 69	76 66	78 67	82 71	82.4 72.8
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	85 76	88 75	88 75	85 77	89 75	87 75	87 75	87 76	86 74	89 75	87 75	87 76	86 76	87 75	88 75	83 75	87 74	86 75	87 75	89 75	87 76	89 74	89 75	87 75	83 75	87 75	87 75	88 72	79 72	87 73	88 74	86.7 74.8
KWAJALEIN MISSILE RGN	MAX MIN	86 76	88 79	87 75	85 75	86 78	87 76	86 76	89 77	86 78	86 76	86 79	86 79	86 78	87 77	87 78	87 79	87 80	87 75	86 74	85 72	87 77	86 75	87 80	87 79	87 80	87 79	87 79	84 75	87 75	87 77	86.5 77.2	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	85 74	86 74	86 75	87 76	87 76	84 74	86 79	88 75	86 77	85 77	83 72	86 75	87 74	87 78	87 78	86 77	87 74	88 77	87 76	87 76	87 79	87 78	87 78	86 75	87 79	87 75	86 79	86 78	86 78	86 79	86 78	86.3 76.5
METALANIM	MAX MIN	89 72	85 72	85 70	86 71	86 74	85 72	88 74	88 72	86 71	84 71	85 71	86 71	85 74	86 72	86 71	86 71	87 73	86 72	86 73	85 71	84 72	88 70	87 69	87 72	86 72	83 69	84 73	85 71	85 71	84 72	85 70	85.7 71.6
PONAPE WSO	MAX MIN	88 76	88 77	89 78	88 76	88 77	86 77	89 77	90 75	87 74	87 74	89 74	89 75	86 76	84 76	85 74	90 77	88 77	88 76	89 77	86 77	85 76	91 75	92 73	91 74	90 78	87 73	89 77	89 78	87 75	85 75	87 74	88.0 75.7
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	84 75	85 76	86 76	87 79	86 77	85 76	85 77	84 76	84 77	84 76	82 73	85 77	85 78	87 80	84 75	86 76	86 78	86 78	86 80	86 79	86 80	82 74	86 74	86 77	86 76	86 78	86 77	84 75	86 78	86 79	86 79	85.3 77.0
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	88 75	87 76	87 76	87 76	86 76	87 76	86 74	87 72	86 72	85 76	88 75	85 74	87 76	86 74	86 75	87 75	82 75	87 76	86 75	87 76	86 76	86 77	86 75	87 75	87 76	84 75	86 74	86 75	86 76	86 73	86 73	86.2 75.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JANUARY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO AP 1020.1	EVAP	.15	.15	.37	.30	.25	.10	.24	.09	.87	.30	-	.15	.29	.20	.09	.06	.14	.17	.15	.15	.29	.20	.20	.08	.14	.31	.19	.12	.03	.29	.25	6.538
	WIND	93	69	138	182	207	70	134	160	355	303	211	162	66	-	67	43	62	106	59	76	109	78	73	137	93	76	81	98	81	117	73	36988
	MAX	75	75	75	74	73	70	77	75	71	75	75	75	77	77	81	75	82	77	-	77	76	74	70	68	72	73	79	76	77	80	80	75.4
	MIN	55	57	55	57	58	58	56	60	61	65	59	59	55	55	62	62	62	62	51	50	52	52	50	55	52	50	49	56	62	61	55	56.5
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.35	.34	.45	.45	.30	.23	.00	-	.35	.07	.30	.15	.10	.06	.30	.15	.24	.18	.15	.22	.14	.15	.15	.15	.30	.30	.10	.20	.18	.19	6.778
	WIND	55	27	13	17	28	16	49	77	147	112	134	79	33	14	18	15	15	53	47	24	22	53	42	22	16	18	22	29	22	35	31	1285
	MAX	82	81	84	79	82	74	75	82	75	85	74	83	81	86	87	90	90	89	81	81	80	82	74	78	79	82	82	85	85	89	82	81.9
	MIN	62	62	60	59	61	59	59	73	70	69	66	65	62	62	67	68	67	68	57	57	59	60	56	54	54	56	55	62	68	68	65	62.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JANUARY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
*** EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP WIND	.32 133	.29 154	.36 203	.29 194	.29 172	.17 84	.30 221	.24 366	.49 300	.41 380	.21 190	.34 72	.33 81	.16 123	.22 84	.23 128	.22 93	.15 112	.19 106	.23 81	.32 220	.37 214	.34 161	.28 152	.20 122	.19 76	.29 57	.24 174	.28 123	.21 287	.18 232	8.34 5095
PAGO PAGO WSO AP	EVAP WIND MAX MIN	.26 84 95 76	.15 77 92 76	.34 90 95 75	.21 35 98 75	.20 27 97 75	.73 39 94 71	.43 50 97 75	.21 118 93 71	.24 77 95 71	.17 40 97 72	.27 42 97 69	- 54 99 73	.34 53 98 76	.16 39 90 76	.21 61 92 76	.31 46 98 76	.20 43 91 76	.33 55 97 75	.26 89 100 75	.20 54 90 74	.12 24 95 74	.28 31 92 74	.11 48 100 74	.19 42 96 74	.47 54 99 72	.05 49 99 74	.35 76 99 74	.29 77 98 65	.05 31 98 66	.30 40 94 66	7.948 1727 95.7 74.2	
*** WESTERN PACIFIC ISL, NORTH OF 12 N																																	
GUAM WSMO	EVAP WIND MAX MIN	.24 169 84 70	.17 139 85 70	.21 163 85 68	.22 123 85 68	.35 123 80 75	.40 107 83 64	.36 116 84 64	.43 61 85 65	.44 174 84 68	.13 145 84 66	.25 115 83 66	.23 117 82 66	.15 159 85 66	.35 95 85 65	.13 66 81 66	.20 84 81 66	.16 135 84 67	.24 180 82 69	.23 126 82 70	.27 169 83 67	.33 139 84 66	.10 41 88 62	.25 33 85 64	.27 70 86 65	.24 104 81 70	.15 118 81 68	.30 140 83 67	.38 195 81 65	.21 167 82 66	.12 103 88 65	7.73 3747 83.5 66.9	
*** CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP WIND MAX MIN	.05 92 89 73	.19 88 91 73	.19 84 90 74	.00 101 97 72	.07 73 102 73	.16 102 116 73	.20 109 86 70	.29 73 87 69	.17 103 87 69	.14 73 89 71	.17 77 89 71	.13 73 85 73	.24 101 86 72	.19 66 83 72	.22 73 84 72	.17 84 81 70	.12 119 82 72	.16 121 90 73	.12 74 87 74	.20 88 90 74	.20 104 91 71	.17 61 90 74	.20 61 87 73	.22 77 88 71	.25 93 88 72	.23 92 85 73	.18 100 85 73	.16 105 87 72	.21 79 91 72	.18 59 94 72	.23 38 94 72	5.41 2686 88.6 72.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JANUARY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983		0140	02	KOLOA	21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A	0145	01	KAWAIIHAU	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A	0240	02	KOLOA	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A	0456	02	KOLOA	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEEELE 927	A	0470	02	KOLOA	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIIHAU	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAOH 1006	A	1038	02	LIHUE	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2		1140	02	KAUAI	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A	1170	01	KAWAIIHAU	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945		2161	03	WAIKOA	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILILIULA INTAKE 1050	A	2222	02	LIHUE	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A		2227	01	HANAIEI	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIKOA	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAU	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104		3159	01	KAWAIIHAU	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A	3982	01	KAWAIIHAU	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944		4272	03	WAIKOA	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANAIEI	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANAIEI	22 14	159 24	180	7A	7A			VALERIE BYRD
KOLO 1033		4735	03	WAIKOA	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIIHAU	22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A	4950	02	KOLOA	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A	5560	02	LIHUE	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A	5575	02	LIHUE	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A	5864	03	WAIKOA	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIKOA	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A	6433	01	WAIKOA	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A	6529	01	KAWAIIHAU	22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R	6565	03	WAIKOA	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035		6850	03	WAIKOA	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A	6893	02	LIHUE	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115		8155	01	HANAIEI	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANAIEI	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040		8205	03	WAIKOA	22 01	159 42	1600		8A		C	KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIKAWA 930	A	8941	02	KOLOA	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIKAWA LOWER 1054		8958	02	LIHUE	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIKAWA UPPER 1052		8966	02	LIHUE	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943		9253	03	WAIKOA	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIKAWA 947		9629	03	WAIKOA	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A	9955	02	KOLOA	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5		0248	02	OAHU	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807		0300	03	EWA	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741		0507	03	EWA	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	21 23	157 54	170				C	NWS SNS AREA 11 PRH
HAWAII KAI CRSE 724.19		1308	02	OAHU	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A	1540	03	EWA	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2		1918	03	EWA	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	#	1919	02	HONOLULU	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3		2410	04	WAILUA	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAUPOKO	21 31	157 54	800		WI			WAIKAWA WATER CO LTD
KAHUKU 912	A	2570	01	KOOLAUPOKO	21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	21 24	157 45	10				C	KAILUA FIRE STATION

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								TEMP.	PRECIP.	EVAP.	SPECIAL SEE NOTES.	
ISLAND OF OAHU												
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910					BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS CHARLES COOKE
KANEOME MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240				C	
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM												
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650	8A	8A			LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB CC DEPT PKS RECREATION
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395		MID			
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A		C	
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718												
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUEKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	
WAIHOLE 837												
WAIALAE KAHALA 715	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALEE LIVESK RES FARM WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL U H WAIMANALO EXP FARM
WAIALEE 896.3	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALUA 847	9190	01	KOOLAULO		21 41	158 02	33	8A	8A			
WAIANAE 798.2	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		C	
WAIHAWA 836	A 9231	04	WAIANAE		21 27	158 11	10		7A			
WAIKANE 885	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKIKI 717.2	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAILUPE VLY SCH 723.6	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAIMANALO EXP FM 795.1	9500	02	HONOLULU		21 18	157 45	180				C	
	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2												
WAIKANE 892	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIKANE 750	9593	05	WAIALUA		21 38	158 04	330				C	
WILHELMINA RISE 721	A 9738	03	EWA		21 23	158 01	59		8A			
	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN) MOLOKAI RANCH CO LTD
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C	
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2 A	8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNEHE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142		0905	02 S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03 KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02 HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54		1303	02 KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01 N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6		1487	02 HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R	1492	02 S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04 N KONA		19 38	155 55	3220		MO			U S SOIL CONS SERVICE
HONAUNAU 27		1665	04 S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02 N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02 S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUULA 71	A	2047	04 N KONA		19 40	155 53	6250		MO			U S SOIL CONS SERVICE
HUALALAI 72	A	2151	04 N KONA		19 42	155 52	8190		MO			U S SOIL CONS SERVICE
HUEHUE 92.1	A	2156	04 N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALO 29	A	2327	04 SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8		2512	03 KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01 HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04 KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04 N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04 HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02 S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03 KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2		3077	01 S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03 KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02 HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02 PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01 HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02 PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03 KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04 S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02 HAMAKUA		19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A	4625	03 KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1		4680	01 N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01 HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04 N KONA		19 39	156 01	30	VAR				FAA
KONA VILLAGE 93.8		4765	04 N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01 HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01 HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01 HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02 S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05 N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02 S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01 S KOHALA		20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04 N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103		5761	02 HAWAII		19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03 KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02 HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05 HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01 N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03 KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91		6552	02 PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03 KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A	6697	04 S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02 N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04 S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02 PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAW 217		7204	01 HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUULO 221		7312	01 HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03 KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02 PUNA		19 30	154 57	670		6A			PUN SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02 PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIKOU 144.1		7711	02 S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	A	7721	02 S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02 S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULO 107	A	8063	02 HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04 N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JANUARY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520				C	PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALO A BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JANUARY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P		C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE
NEW STATIONS EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
WESTERN PACIFIC ISL, NORTH OF 12 N												
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

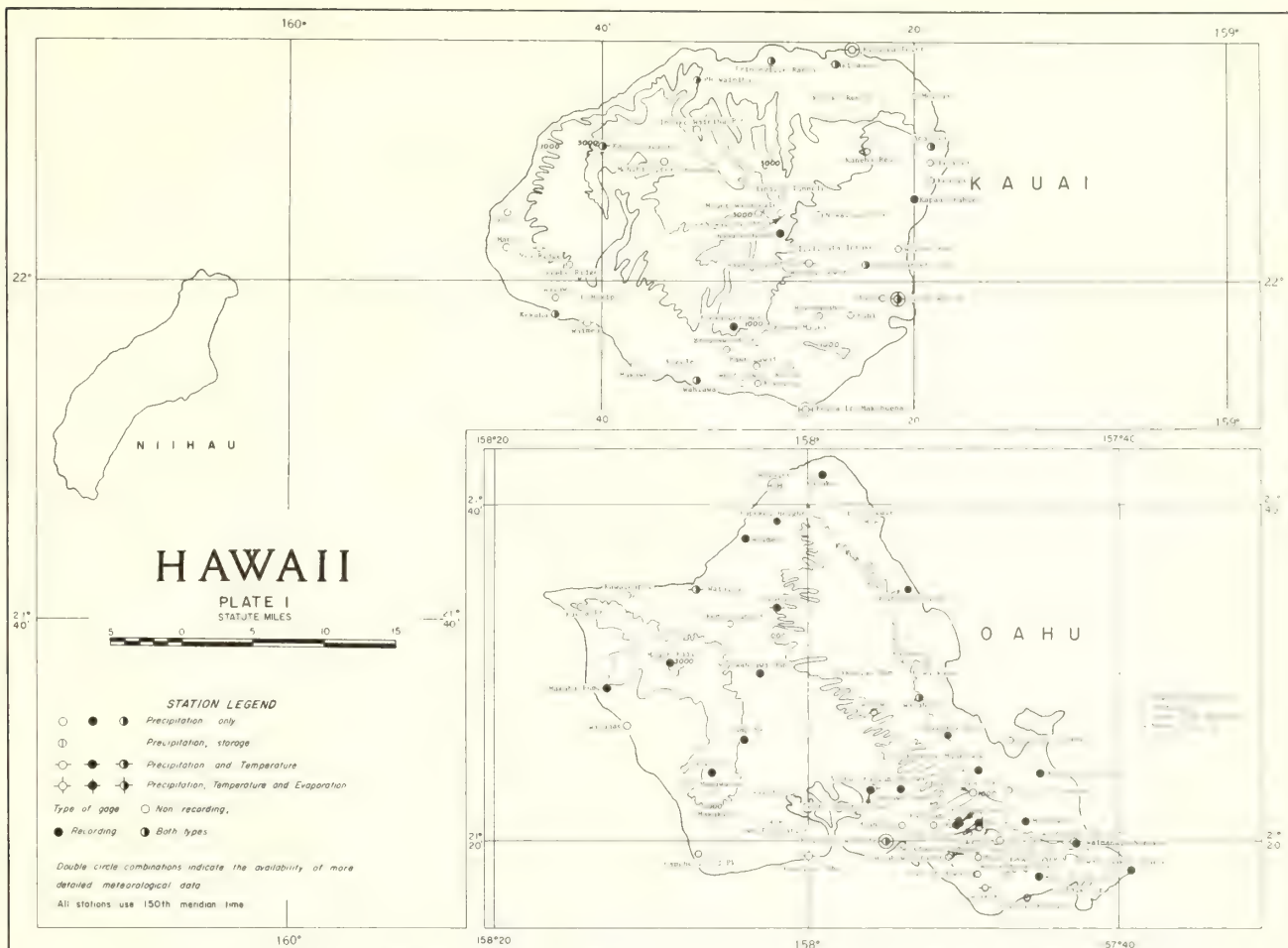
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

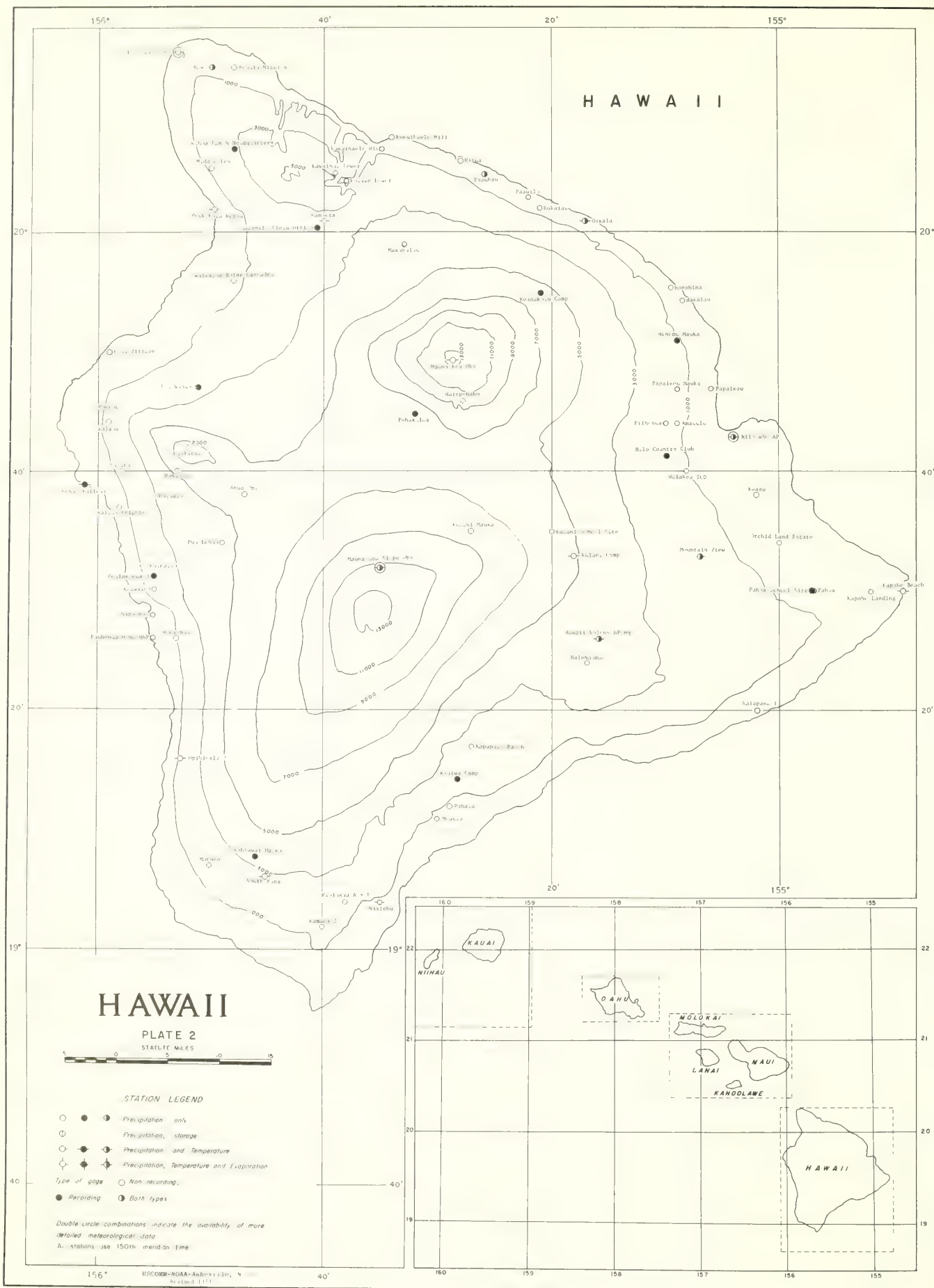
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

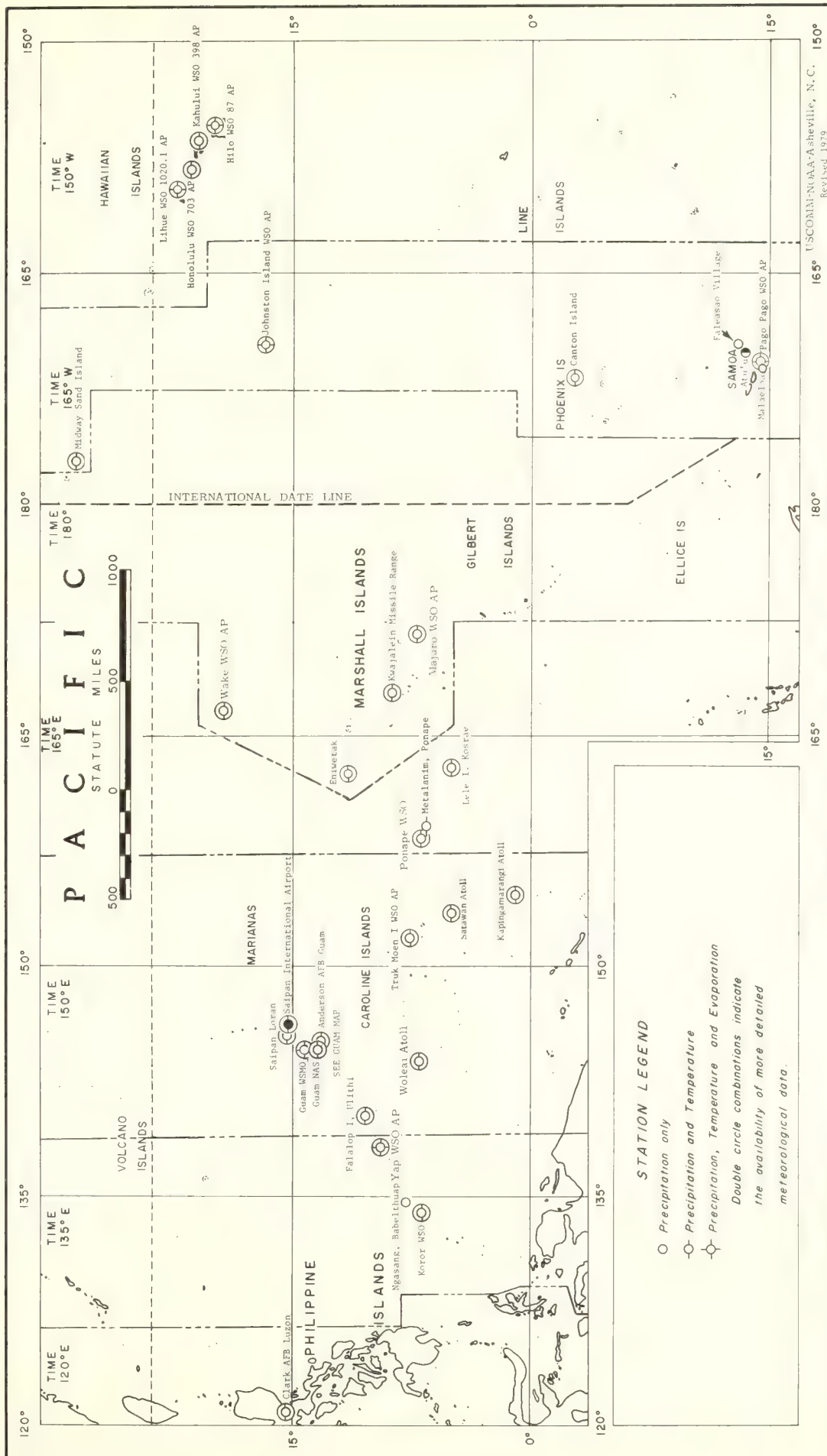
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

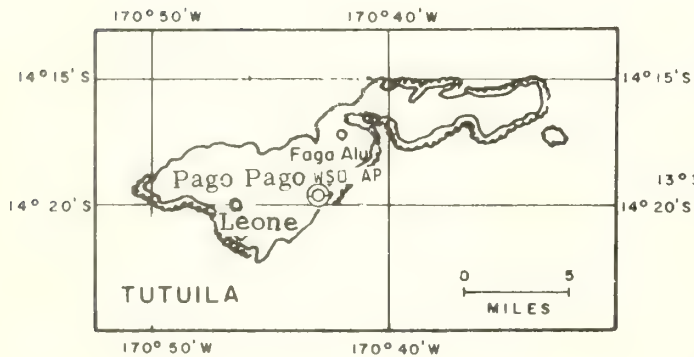
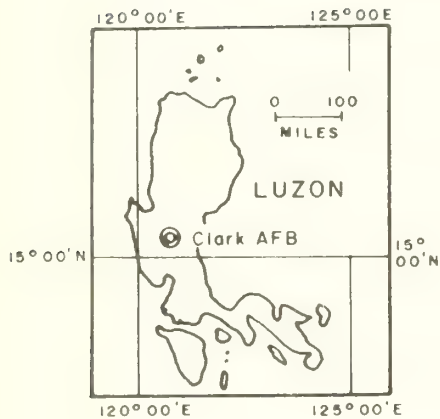
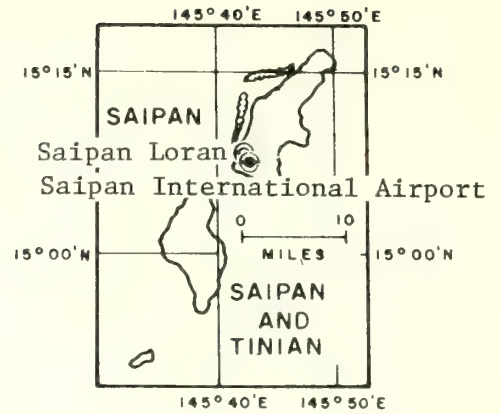
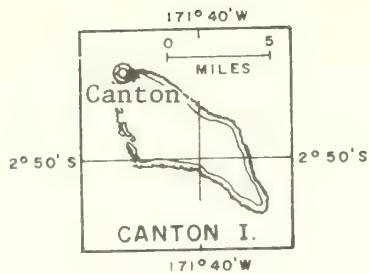
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
ATTN: Publications

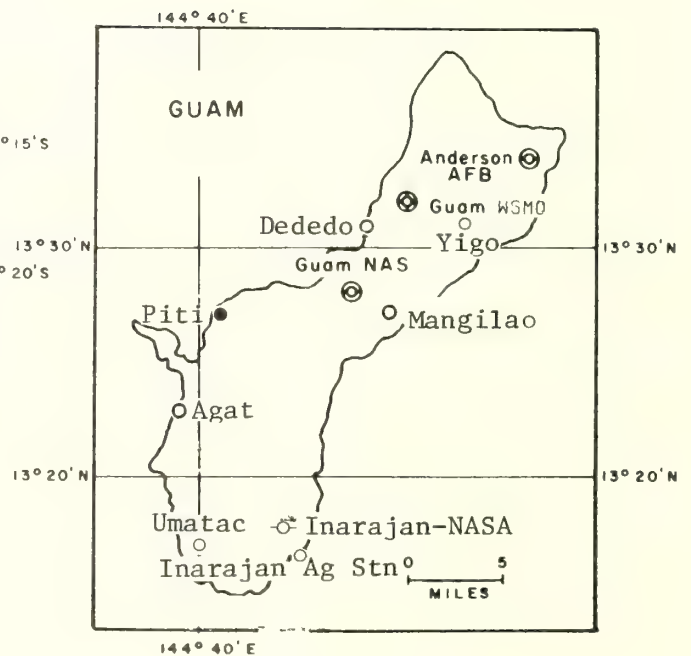


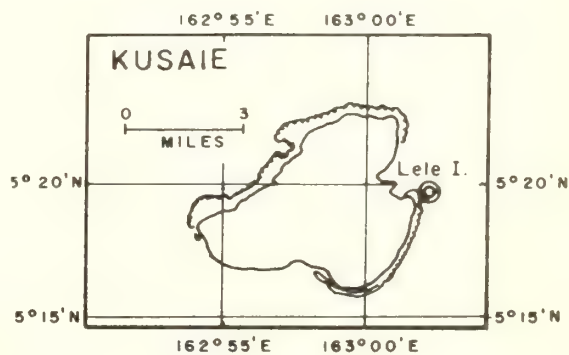
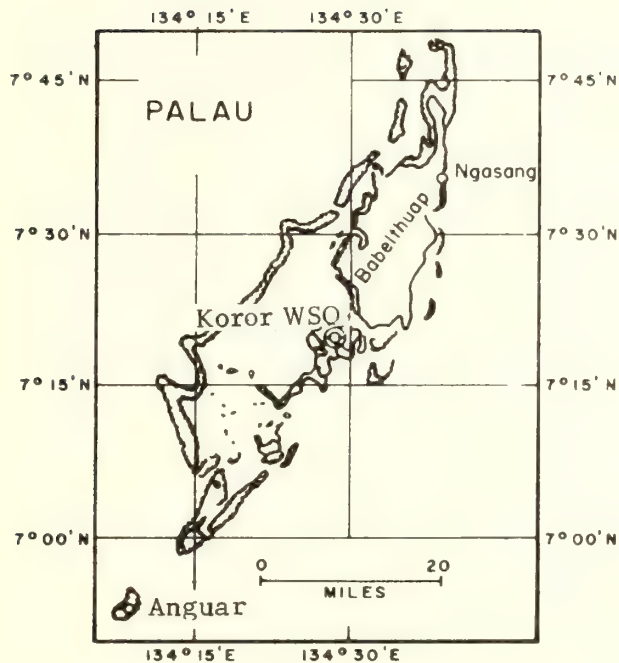
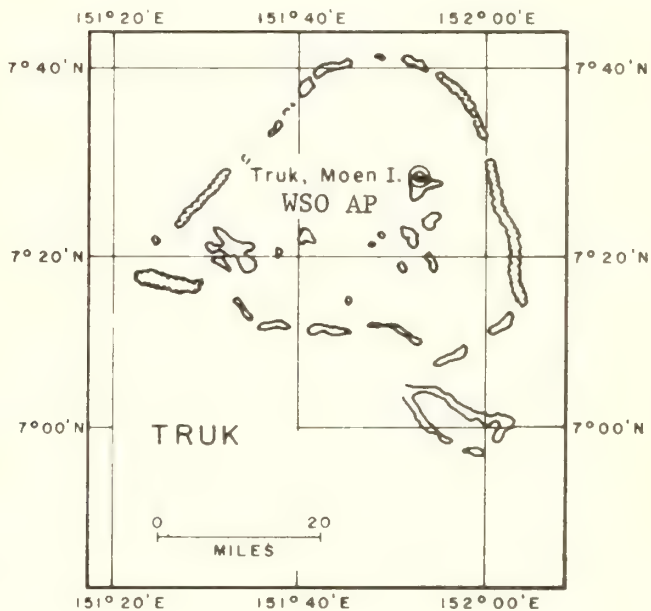
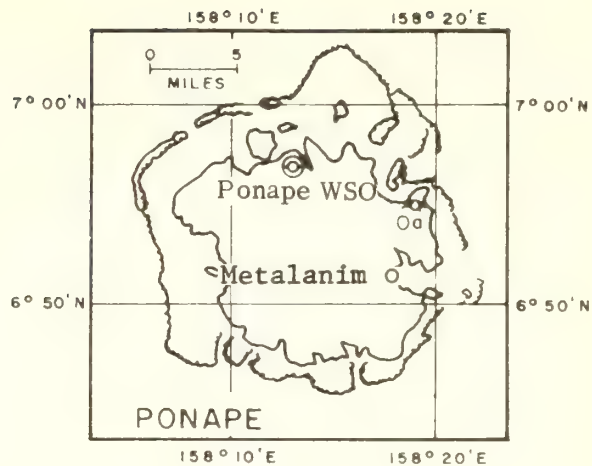
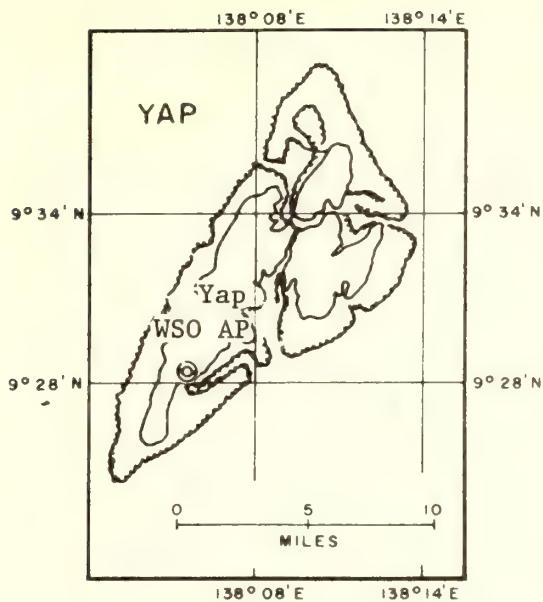




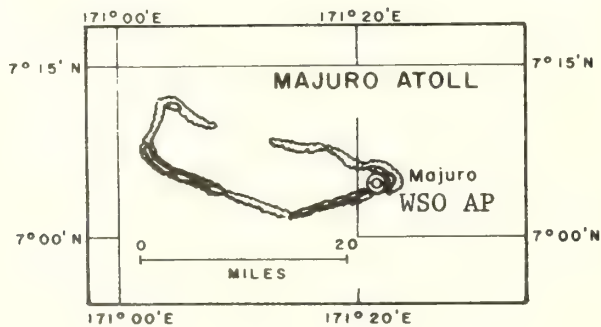
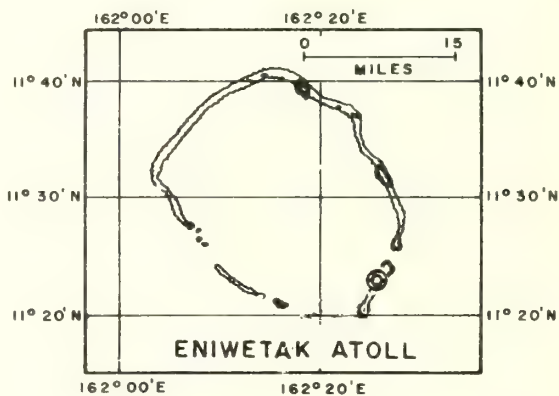
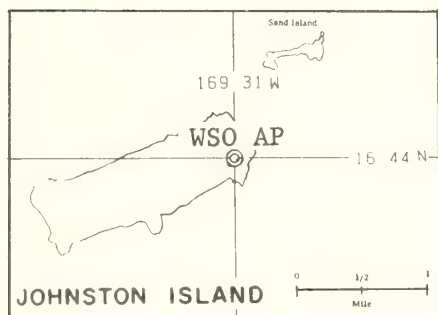
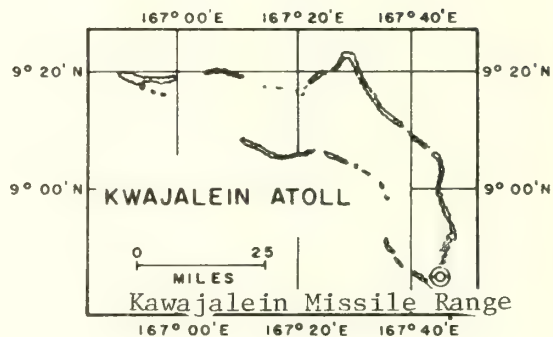
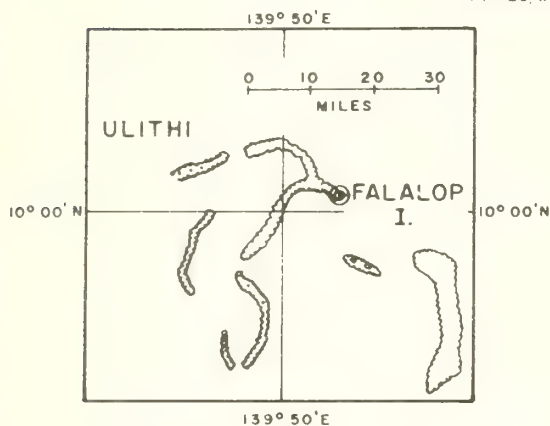
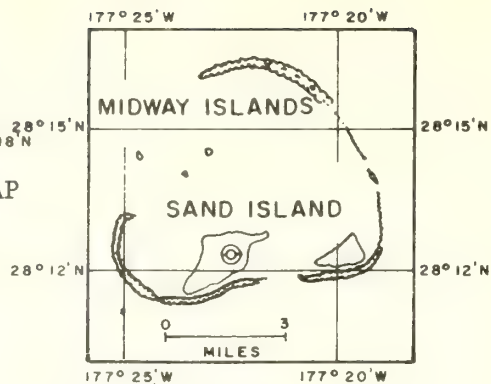
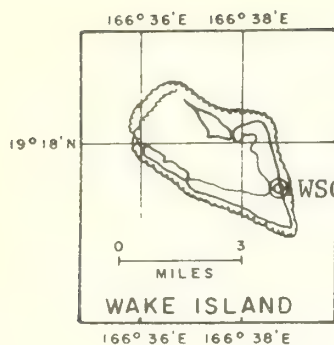


Reef





— Reef



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Climatological Data



HAWAII AND PACIFIC

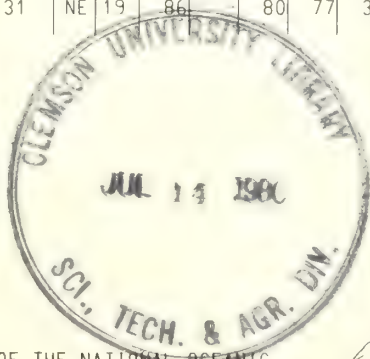
TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	89	DATE 09
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	23 DATE 29
GREATEST TOTAL PRECIPITATION:	KUKUI 380	MAUI	23.00
LEAST TOTAL PRECIPITATION:	MAUNA KEA OBS 111.2	HAWAII	.02
GREATEST 1 DAY PRECIPITATION:	WAHIKULI 364	MAUI	4.15 DATE 25

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	29	E	26	-	77	79	84	4	9	6	1	2	2	24	48	8.7	
HILO WSO 87 AP	32	0.4	4.8	21++	35	27	80	75	65	79	3	2	5	2	1	0	13	54	5.7	
HONOLULU WSO 703 AP	33	1.8	8.2	25++	29	14	84	83	62	73	4	5	4	0	1	0	14	54	5.9	
JOHNSTON WSO AP	6	9.4	12.1	25++	7	17	81	83	75	79	6	2	2	1	0	0	11	82	4.4	
KAHULUI WSO 398 AP	6	1.8	9.4	33	NW	27	-	80	63	73	5	4	5	2	1	0	17	61	5.8	
KOROR WSO	5	8.2	9.3	22	NE	22	89	-	82	77	2	6	8	5	1	1	23	45	8.9	
KWAJALEIN MISSILE RGN	6	15.0	15.4	23++	7	19+	80	80	72	75	5	9	6	2	0	0	22	-	7.9	
LIHUE WSO 1020.1 AP	31	1.5	8.3	23++	23	24	82	79	59	77	6	9	2	1	0	0	18	60	5.1	
MAJURO WSO AP	7	12.8	13.3	28	E	02	79	81	73	75	4	8	8	2	2	1	25	79	9.1	
PAGO PAGO WSO AP	7	3.9	7.9	34++	4	26+	92	93	76	83	2	5	10	6	1	0	24	44	7.6	
PONAPE WSO	-	-	-	18	NE	04	82	-	76	79	4	4	10	2	0	3	23	29	8.7	
TRUK,MOEN I, WSO AP	7	9.9	11.2	26	S	22	82	-	76	77	6	5	6	0	1	1	19	68	9.7	
WAKE ISLAND WSO AP	6	7.8	10.5	28++	2	26	73	75	64	65	6	4	1	0	1	0	12	68	4.9	
YAP WSO AP	4	9.9	11.0	31	NE	19	86	-	80	77	3	9	8	2	1	0	23	51	9.4	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	TEMPERATURE													PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	DATE	SNOW, SLEET			NO. OF DAYS						
									MAX.		MIN.								TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE				
									20° OR ABOVE	32° OR BELOW	32° OR BELOW	50° OR BELOW	TOTAL	MAX. DEPTH ON GROUND											DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
									20° OR ABOVE	32° OR BELOW	32° OR BELOW	50° OR BELOW																
HAWAII																												
ISLAND OF KAUAI																												
ANAHOLA 1114	A	64.0	47.1	55.6		70	7+	32	5		0	0	0	1	0	2.14			.0	0		9	5	2				
KANALOHULU 1075		78.6	65.6M	72.1M		86	9	62	18+		209	0	0	0	0	6.99	1.90	16	.0	0		8	1	0				
KILAUEA POINT 1133																2.18	.56	15	.0	0								
KOLOA 936	A															2.96	1.28	28	.0	0								
LIHUE WSO AP 1020.1	//R	79.1	63.1	71.1	-.1	84	22+	59	18+		186	0	0	0	0	1.65	- 2.63	.80	27	.0	0	3	1	0				
MANA 1026																												
N WAILUA DITCH 1051	M															1.70	-.86	.41	27	.0	0	7	0	0				
PH WAINIHA 1115																3.36			.0	0								
PUEHU RIDGE 1040																7.66	- 4.83		.0	0								
WAIHAWA 930	A															2.19	- 1.53	.50	27	.0	0	6	1	0				
																2.60	-.99	1.28	28	.0	0			1				
WAIHAI LOWER 1054		78.1	56.3	67.2		80	24+	48	18		77	0	0	0	0	4.22	- 4.59	2.06	7	.0	0	6	3	1				
WAIHIA 947		81.1	63.5	72.3		86	9	59	28+		219	0	0	0	0	1.64	- 1.31	.98	28	.0	0	4	1	0				
ISLAND																												
				67.7												3.27			.0									
ISLAND OF OAHU																												
ALDHA STADIUM-HALAWA		81.7M	64.0M	72.9M		87	25+	58	19		236	0	0	0	0	2.06	1.26	28	.0	0				1				
B Y U LAIE 903.1		77.8	62.7	70.3		86	24+	58	19		157	0	0	0	0	4.51	1.00	27	.0	0		9	3	1				
HONOLULU OBSERV 702.2		80.4	61.0	70.7		85	8	55	26		171	0	0	0	0	2.66	1.49	28	.0	0		5	1	1				
HONOLULU WSO AP 703	R	79.9	64.8	72.4	.1	84	10	58	26		220	0	0	0	0	2.26	- .20	1.29	27	.0	0			1				
KANEIHE MAUKA 781		78.4	67.3	72.9	1.9	84	23	62	20+		236	0	0	0	0	5.53	- 1.38	1.95	28	.0	0	9	4	2				
KOOLAU DAM 833																												
MANDA LYON ARBORETUM	M	79.0	61.9	70.5		85	10+	55	28		164	0	0	0	0	4.97	2.10	27	.0	0		7	4	1				
NUUANU RES 4 783																5.68	- 3.12	1.88	27	.0	0	10		1				
OPAEULA 870	A	80.8	62.0	71.4	5.0	86	11+	58	19		192	0	0	0	0	7.22	- 2.80	2.52	27	.0	0	9	5	2				
PALOLO VALLEY 718	R																											
PUI MANAHAUA 725.6		73.4M	59.5M	66.5M		78	7	55	25+		57	0	0	0	0	2.96	1.54	27	.0	0		8	1	1				
WAIHOLE 837	A															5.54	1.50	28	.0	0								
WAILUA 847	A	78.8	60.3	69.6	-.1	87	22	51	19		138	0	0	0	0	3.49	- .16	1.64	28	.0	0	6	3	1				
WAIKIKI 717.2		82.4	62.7	72.6		86	22+	56	26+		224	0	0	0	0	2.20	.99	28	.0	0		5	1	0				
WAIMANALO EXP FM 795.1		76.3	63.4	70.9		83	23+	58	19+		178	0	0	0	0	5.40	2.43	28	.0	0		8	3	2				
WAIPAHU 750																												
	A															3.08	1.72	28	.0	0				1				
ISLAND																												
				71.0												4.11			.0									
ISLAND OF MOLOKAI																												
MOLOKAI AP 524		80.4M	62.3M	71.4M		89	9	55	19		189	0	0	0	0				.0	0								
ISLAND																												
				71.4															.0									
ISLAND OF LANAI																												
LANAI CITY 672	M	74.8	59.4	67.1	1.2	81	9+	53	19		74	0	0	0	0	6.49	3.27		.0	0								
ISLAND																												
				67.1												6.49			.0									
ISLAND OF MAUI																												
HALEAKALA EXP FARM 434	M	58.8	41.4	50.1	-.2	68	20	35	17+		0	0	0	0	0	5.78	1.87	28	.0	0		12	2	1				
HALEAKALA R S 338		79.7	65.5M	72.6M		86	25	60	26		229	0	0	0	0	7.67	.93	1.74	15	.0	0	9	5	3				
HANA AIRPORT 355	A															7.67	2.51	11	.0	0		12	6	2				
HONOKOHUA 493																5.59			.0	0								
KANAPALI AP 453.1		80.7	62.5	71.6		85	9	58	19+		198	0	0	0	0	5.91	2.14	24	.0	0		9	4	2				
KAHULUI WSO 398 AP	R	81.1	65.7	73.4	1.8	88	8	58	19		253	0	0	0	0	4.07	1.43	1.13	27	.0	0	8	3	1				
KAILUA 446		76.6M	63.1M	69.9M	2.0	81	25	59	21+		148	0	0	0	0	8.01	- 2.28	1.59	13	.0	0							
KEANAE 346	M															9.30			.0	0								
KIPAHULU 258																5.61	- 2.06	.60	24	.0	0	19	2	0				
KULA HOSPITAL 267		69.8	54.3	62.1	1.2	76	10	48	19+		4	0	0	0	0	10.57	7.12	1.86	28	.0	0	11	8	6				
LAHAINA 361																												
PAIA 406		82.8	62.8	72.8	1.3	86	10+	56	26		232	0	0	0	0	5.89	4.24	3.24	25	.0	0	6	3	2				
WAILUKU 386	M															4.04	.52	1.27	28	.0	0	10	3	1				
																5.02	1.21		.0	0								
ISLAND																												
				67.5												6.55			.0									
ISLAND OF HAWAII																												
HAWAII VOLCNS NP HQ 54	R	70.6M	51.7M	61.2M	3.6	75	9	48	13+		0	0	0	0	0	2.89	- 7.34	1.06	23	.0	0	7	2	1				
HILO WSO AP 87		81.3	63.9	72.6	1.6	88	27	60	22+		227	0	0	0	0	4.14	- 8.76	1.11	29	.0	0	8	3	1				
HUEHUE 92.1	M															1.23			.0	0								
KAINALIU 73.2		79.0	61.3	70.2		83	23+	56	17		159	0	0	0	0	1.52	- 1.36	.72	28	.0	0	5	1	0				
KAPOHO BEACH 93.11		84.2M	66.3M	75.3M		89	9	62	1		305	0	0	0	0	2.23		.91	29	.0	0	4	2	0				
KEAAU 92																												
KONA (KAILUA) 68.3	M															4.22			.0	0								
KUKUHALE HIC 199																5.40	- 1.65	2.05	28	.0	0	6	2	2				
KULANI CAMP 79		66.3M	44.8M	55.6M		76	22	35	19		0	0	0	0	0	2.23	.60	24	.0	0		7	1	0				
PAHALA 21	A															1.74	.72	28	.0	0		3	2	0				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	TEMPERATURE														PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
FEBRUARY 1980

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOA 1114	A	2.14			.68	.07	.22				.20		.20	.02	.03												.08			.50	.14		
BRYDESWOOD STA 985	A	2.21			.04	.13	.12	T			.18	T	.20	.01	.05												.11	.02		1.29	.01		
EAST LAWA 934	A	2.44			.10	.22	.06				.10		.07	.01	.02					.05			.02				.23	.01		1.48	.07		
ELEELE 927	A	2.35			.01	.39	.10				.09	T	.08	T	.03												.09	T		1.40	T		
HALAULA 1110	A	2.93			.54						.96		.21	.03	.04					.06										.58	.32		
HALEMANAWA 1006	A	2.15				.05	.11	.05			.11		.11	.04	.03					.03							.22			.98	.42		
MAHALEI TUNNEL 1053	A	3.60																													3.60		
HUKIPO 945	A	2.01				.35	.17				.28		.04	.04	.18												.20	.45		.30			
ILILIULA INTAKE 1050	A	5.72	.07		.02	.11	.36				.34	.04	.28	.20	.12						.11		.01				.20	.45		.30	.07		
INTAKE WAINIHA PC 1086	A	5.27	.17			.28					1.82				.77												.93			1.30			
KANALOHULU 1075	A	6.99	.03		.09	.20	.09	.03			.97	.23	.48	.07	.12	1.90					.04						1.30	.43		.55			
KANEHA RESERVOIR 1092	A	3.46			.64	.10	.27	.05			.62		.50	.07	.12												.34			.60	.45		
KEALIA 1112	A	1.60			.12	.05	.08				.22		.53	.02	.12															.57	.31		
KEKAHA 944	A	1.53		.03	.22	.02	.02				.18		.04	.05	.08												.16	.53		.22			
KILAUEA 1134	A	3.54	.04	.07	.84	.06	.11	.08	.04			.31	.09	.12	.65	.42											.30			.43	.01		
KILAUEA POINT 1133	A	2.18	.01	.08	.01	.04	.10	.02	.26	.01		.07	.11	.56	.24												.15	.24		.27	.01		
KOLOA 936	A	1.44				.05					.10		.36		.28																		
KOLOA MAUKA 994	A	2.96			.19	.36	.40				.08		.23	.47	.63								.01	.02			.29			1.28	.23		
KOLOKO RES 1137	A	2.07			.55	.01	.36	.15	.02	.10		.02	.23	.63													.49	.26		.97			
KUKUIULA 935	A	3.98			.55	.01	.36	.15	.02	.10		.02	.23	.63													.49	.26		.97	.01		
LIHUE VARIETY ST 10621	A	2.86			.10	.56	.10				.08		.05	.01	.02					.02							.27	.01		1.43	.04		
LIHUE 1020	A	1.81			.05	.15	.05				.05		.25	.03													.20	.15		.88			
LIHUE WSD AP 1020.1	//R	1.65	T	T	.01	.09	.08				.04		.07	.01									.02				.10	.18		1.01	.01		
MAKAMOLI 965	A	2.19			.05	.06	.09	.02	.02		.01	.09	.07	.06	T	.01	.14									.14				.80	.38	.01	
MANA 1026	A	1.70				.31					.11		.21	.03	.13												.24	.41		.26			
MOHIHI UPR CROSS 1083	A	3.72			.08	.08				.24	.32		.24		.55	.55	.24									.63				.63			
MOUNT MAHALEALE 1047	R	2.11								5.07	.24		.16	.24		.08																1.02	
NIU RIDGE 1035	A	3.84				.19					.28		.21	.08	.06	.23														.46	.26		
N WAILUA DITCH 1051	A	3.36	.06			.07	.09	.10	.31			.41	.02	.31	.18	.09					.12						.59	.05	.52	.41	.03		
N WAILUA RIVER 1055	A	2.60				.03	.10	.31				.41	.02	.31	.18	.09														.26	.60		
PH WAINIHA 1115	A	7.66	T		.20	.03	.40				.45	T	.25	.01	.80				1.93								2.20	T		1.36	.04		
PRINCEVILLE RANCH 1117	A	1.62			.17	.10	.10				.31		.37	.01	.82				.76											.25	.02		
PUEHU RIDGE 1040	A	2.19				.25	.04				.39		.12	.05	.06	.42											.33	.50		.15	.02		
PUNU 1013	A	1.96				.09	.06	.06			.04		.08	.04	.03				.06											.13	.89	.48	
WAILAUA 930	A	2.40			.02						.05		.07	.11	.02				.05											.21	.16	.01	
WAILAHI LOWER 1054	A	4.22			.06	.20	.06	.06			.02	.06	.16	.11	.01						.09						.08	.64		.68	.19		
WAILAHI UPPER 1052	A	4.55	.02		.05	.08	1.57	.33			.03	.11	.02	.23	.21	.07					.03		.02				.20	.65	.05	.03	.76	.09	
WAILAUA 943	A	1.58		.07		.15					.14		.08	.06		.09														.20			
WAILUA KAI 1065	A	2.12				.16	.11				.07	.10	.20	.05		.10											.15			1.00	.35		
WAIKANE 947	A	1.64				.15					.07	.10	.20	.05		.10											.15			.98			
WEST LAWA 931	A	2.72		.01		.53	.23				.05		.09	T	.02				.03				.01	.03		.04		.22	.07	1.43	.01		
ISLAND OF OAHU																																	
ALOWA STADIUM-HALAMA	A	2.06			T								.08	.04	.03			.01	T				.06				.58			1.26	T		
BERETANIA PUMPING STA	A	2.26											.23	.23	.03								.20				.65			1.10			
B Y U LAIE 903.1	A	4.51	.01	.01	.09	.40	.33	.01			.56	.04	.40	.35	.02	.06	.21						.17		.36					1.00			
CAMPBELL 1ND PK 702.5	A	2.20				.11					.10		.08	.01	.05															.15			
COCONUT ISLAND 840.1	A	4.80			.26	T	.35		.25		.06	T	.49	.01	.04						.01						1.72	.01		1.57	.01		
ENA PLANTATION 741	A	2.78				.07	.05	T		.05		.05	.10	.03	.14				.08				.13				.73			1.64			
HONOLULU OBSERV 702.2	A	2.66				.31	.42				.05		.37	.01	.02				.25				.33		.25		.25			1.49			
HONOLULU MSGD AP 703	R	2.26				.04				.01	.02		.16	T	.01				.01				.30	.01	.32					1.29	T		
KAENA POINT 841.3	A	.21				.03	.03				.01		.02	.16	T								.30	.01	.32					.02	.03	.01	
KAHANA 883	A	5.82			1.56	.03	.03				2.04								.96				.03		.01	.12							
KALIHI RES SITE 777	R	5.88			.16	.06	.08	1.12			.22	.65	.08	.24	.10	.02							.18	.48	.54	.04		1.88		.26	.42		
KANEHUE MAUKA 781	A	5.53		.02	.12	.02	.40	.58	.06				.04	.02	.04						.04			.12	1.01	.24	.05			1.95	.12		
KAPALANA 773	A	3.17				.05					.05		.30	.02	.13									.63			.60	.02		1.36	.05		
KAWAIHAPA 841	A	4.26			.12	.34					.03		.86	.03	.03									.03			.75	T		1.92	.18		
KEMO CAMP 8 855	A	6.50	T		.08	.03	.29				.03		.39	.03	.65				.44				.03				2.35	.03		2.00	.15		
KOOLAU DAM 833	A	4.11	.04		.13	.32					.04		.38	.06	.24	.04							.10	.04	.60	.33	.08			1.55	.16		
MAKAKILO 730.1	V	4.40		1.95		.05				T	.09	T	.25	.05	.05								.13	.04	.35	.38				1.32	.1		
MANOA 712.1	A	2.36				.05					.05		.19		.05								.17	.05	.15	.70				1.33			
MANOA LYON ARBORETUM	A	4.97	.02		.02	.74			.58		.05	.18	.27	.04	.05	.02																	

HAWAII AND PACIFIC
FEBRUARY 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ORCHID LAND EST 91.5	A	3.54							48							1.95																	1.11
PAUHAU 217		6.63	.03		.03	.12							2.42	.27		.22	.03							.01				1.71		1.58	.21		
PAUULO 221		7.44	.37		.12	.25							1.92	.04	.03	.10											1.68		2.52	.41			
PAHALA 21	A	1.74	.63			.03		.02					.07	.14	.01	.04											.01		.72	.07			
PAHOA 65		6.10			.53	.21	.04	1.00	.70				1.25	.84		.11											.41	.05	.14	.82			
PAPAIOU 144.1		5.31			.22	.44	.01	.04	.02				1.47	1.22		.12	.22				.32										.20	1.03	
PAPAIOU MAUKA 140.1	A	5.01			.02								3.67						1.32														
PIIHOHUA 89	A	8.80																													8.80		
PUUKOHOLA HEIAU 98.1		1.09	.26												.01	.07	.32								.01	.04				.37	.01		
PUU LEHUA 73	A	1.80																													1.80		
PUUHOHUA-O-HONAUNAU		.86						.01								.44	.01									.05		.05	.05		.25	.03	
SOUTH KONA 2.31		1.71				.08						.38		.23		.04	.27																
UPOLO POINT USCG 159.2		1.52	.03					.02	1			1	.23		.10	.09	.18	.05						.05	.02	.05		.12	.01		.75	.05	
MAIJAKEA SCD 88.2		5.81		.01		.77		.12	1	.22		2.00	1.05	.05		1	.02											.02	1	.32	1.23		
MAIKALOA-BOIS CAS 95.8		.87	.02										.09		.37	.19					03		.12				.03	.02					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	TOTAL	DAY OF MONTH																																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
PACIFIC																																								
EAST OF 180TH MERIDIAN																																								
AASUFOU	12.42	.24	.04	.42		11	76	12		3.24	.65	.52		.05		.59		1.46	.14	T		.17	T	.60		1.23	T		.11	.64	.20		.34	.24	.17		.08	.30		
AFONO	9.08	.27	.06	.34		01	16	T		1.05	.23	2.77		.75	T	.01		.16	.13			.57	.17	.02		.51			.05	.33	T		.49	.58	T		.05	.38		
FALEASO VILLAGE	19.44	.36	.89	11		08	45	.96		1.08	3.11	2.05		.05	.26	.85		.02	1.86	.91		.64	.37	1.17		1.02	.75	.18		.23	.61	.08		.12	.03	.01			.52	.47
JOHNSTON IS WSO AP	R 1.11	T												T		.73		.22		T		T	T																	
MIDWAY SAND ISLAND																																								
MALAE OA	10.69	.11	.09	2.93		.02	.26	.50		1.10	.18	.10		T	.45		.40	T			1.05	1.71		.35				.68	T			.35	.11	T		.14	.14			
PAGO PAGO WSO AP	R 7.47	.23	.12	.50		.02	.37	.01		.94	.52	.20		T	.09		.22				1.27	.75	.52					.42	T		.11	.24	.13	.12		.60	.07			
WESTERN PACIFIC ISL. NORTH OF 12 N																																								
AGA I	16.05			.30						10									.60							.60	.30			.74	1.63	1.04	3.04	7.30		.40				
ANDERSEN AFB GUAM																																								
CLARK AFB LUZON																																								
DEDEO	18.29			.10		.06				11	.05			.30	.30	.40		T	.40	T				T		.01	T	T		.30	1.17	1.50		.85	6.50	6.06		.18	T	
GUAM NAS																																								
GUAM WSO	R 14.79	T	.51	.06				.03		.09	.02	T		T	.11	.10		.01	.04	.01				T		.22	.03		.43	1.10	1.01		2.20	8.24	.18		.01	.39		
INARAJAN AG STN	12.40					.16	.02			.21	.10															.22	.03		.43	1.10	1.01		2.20	8.24	.18		.01	.39		
INARAJAN - NASA	13.37		.05	.28		.05		.01		.14		.01	.05	.10					.02							.03	.01	.08			1.15	2.46		2.00	2.47	5.09		.90		
MANGI AO	14.99		.10	.20		.01				.08		.10		.01	.06	.05			.03							.03	.01	.08			.09	.82	.97		.84	7.34	.69		.05	
SATPAN LORAN																										.02	.10	.08			1.00	1.00	.06		.01	.20				
UMATAC	7.94					T	T	.02		.01		T		.02	.01		.03					.01	T	T		.03	.05	.01			T	.10	6.30	.20	.45		.60	.10		
WAKE ISLAND WSO AP	R 1.54					.02	.03															T	T	T		.10	.05				T		1.26							
YIGO	21.00			.30								.21			.50		.11	.80									.17				.54	1.90	1.72	14.35						
CAROLINE AND MARSHALL ISLANDS																																								
ENEWETAK																																								
FALALOP I ULITHI ATOLL																																								
KAPINGAMARANGI ATOLL																																								
KOROR WSO	R 16.01		T	.26		.01	.65	.47		.22	.23	1.96		.91	.61		T	.12	.06			.65	7.90	.03		.76				.06	.31	.27		.43	.06	.04				
KWAJALEIN MISSILE RGN	R 2.82	T	.01	.54		.40	T				.11	.13			.08		.01	.01			.04	.01	.01		T	.08	.12			.37	.03	.16	.71			T	T			
LELE I KOSRAE																																								
MAJURO WSO AP	R 9.70	T	.05	.01		.15	.07	.20		.32	1.76	.11		.12	.06						.02	.31	.06		T	.02	T		.27	.52	3.61		.04		.15		1.05	.80		
METALANIM	13.44					2.55	2.03			15	3.95	.06		.55	.38	.03		.01	.20		.06						2.39	.88			.02				.05		.13			
NGASANG BABELTHUAP																																								
PONAPE WSO	R 18.63	T				4.27	.03			30	7.13			.94	.47	.15		.10	.68		T	.03	.04		.10	3.00	T		T	.49		.33	.11	.17		.23	.06			
SATAWAN ATOLL																																								
TRUK MOEN I WSO AP	R 5.96		.16	.24		.01	1.87	.01		.20	T			T	.14		T	.09		.24		.09			2.46	.07		.33	T	T							T			
WOLEAI ATOLL																																								
YAP WSO AP	R 4.60	T		.08			.14	T			.57	.95				.17	.12	T	.04	.23		.01	.04	.02		.08		.31		.03	1.38	.14	.02	.01		.15	.11			

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DAILY TEMPERATURES

HAWAII AND PACIFIC
FEBRUARY 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	70 50	61 48	60 43	64 40	65 32	65 42	70 56	67 47	66 42	62 53	67 44	60 45	65 53	60 49	60 51	55 48	68 48	65 36	65 39	64 40	65 52	66 54	68 53	63 56	65 51	67 48	58 49	61 51	63 46	64.0 47.1		
KILAUEA POINT 1133	MAX MIN	72 65	76 63	77 62	79 65	76 65	78 67	81 69	82 70	86 70	82 69	75 66	78 68	76 64	64 64	79 65	75 65	80 62	79 64	78 66	82 66	84 69	83 67	81 69	82 64	78 63	77 63	74 63	70 66	78.6 65.6			
LIHUE WSO AP 1020.1	MAX MIN	78 61	78 61	77 60	77 60	79 61	79 66	80 69	81 65	82 64	77 64	77 65	76 65	78 63	81 63	80 63	79 60	77 59	78 59	79 61	79 65	84 64	83 63	83 68	79 63	79 60	78 64	74 65	77 66	79.1 63.1			
NIU RIDGE 1035	MAX MIN	73 62	74 63	74 57	75 55	77 54	79 58	78 60	82 62	81 63	80 60	81 58	77 59	70 61	77 60	74 62	73 60	73 55	76 55	79 61	81 55	80 61	80 64	81 62	80 62	79 60	76 58	70 58	74 57	76.4 59.6			
WAIHI LOWER 1054	MAX MIN	75 54	76 52	77 53	79 50	79 51	79 53	79 64	79 61	79 53	80 58	78 57	79 57	76 62	78 60	79 57	78 62	79 49	77 48	78 49	79 51	80 51	80 58	80 57	80 68	79 68	79 60	75 49	78 60	70 62	78.1 56.3		
WAIMEA 947	MAX MIN	78 60	79 62	79 60	79 60	79 61	82 66	81 64	84 64	86 66	82 68	82 64	82 65	79 66	81 63	82 64	82 65	79 66	81 66	80 66	81 61	80 63	80 62	82 64	84 63	83 66	83 69	83 64	81 59	80 59	78 62	81.1 63.5	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	84 68			82 67	82 65	83 65	81 67	87 64		87 64	80 67	83 68	83 65	82 65			81 59	83 58	84 63	83 63	85 63				87 69	76 59	76 59	73 62	74 63	81.7 64.0		
B Y U LAIE 903.1	MAX MIN	75 59	75 61	74 60	74 60	77 64	75 64	78 64	79 72	80 64	80 66	74 67	76 66	75 66	80 63	79 63	76 65	75 61	76 60	76 58	76 60	84 59	86 64	85 63	86 65	84 65	79 65	75 61	74 65	77.8 62.7			
HONOLULU OBSERV 702.2	MAX MIN	78 58	79 58	79 60	80 62	80 58	82 60	81 64	85 61	83 63	83 65	84 63	80 63	80 65	80 62	79 62	79 56	80 56	80 60	83 62	83 67	82 67	82 66	78 65	79 55	75 57	78 61	80.4 61.0					
HONOLULU WSFO AP 703	MAX MIN	78 59	77 59	78 60	78 61	83 61	82 64	83 70	81 67	82 67	84 70	81 69	79 71	79 69	81 67	79 67	79 68	80 62	81 60	81 62	81 70	81 70	81 71	79 62	79 58	76 64	78 63	78 68	79.9 64.8				
KANEHE MAUKA 781	MAX MIN	76 65	77 65	76 65	79 65	78 66	78 67	78 71	80 71	81 69	82 70	80 67	76 67	79 66	75 66	79 66	78 62	78 67	76 63	78 62	79 62	82 72	84 74	80 70	79 68	77 63	77 71	74 64	78.4 67.3				
MANOA LYON ARBORETUM	MAX MIN	74 58	76 58	81 58	80 61	80 61	82 63	77 65	79 67	85 64	85 63	83 66	79 65	80 65	80 60	78 60	77 58	76 58	79 57	81 60	82 62	82 64	83 67	80 66	76 66	73 61	75 63	73 55	76 65	79.0 61.9			
OPAELUA 870	MAX MIN	80 60	76 59	76 59	80 62	82 62	80 63	80 65	86 59	86 59	75 60	86 59	82 60	84 64	82 62	84 62	75 63	74 61	82 65	82 58	82 60	82 60	82 63	76 66	78 66	84 64	84 62	84 63	82 65	83 64	80.8 62.0		
PUU MANAWAHUA 725.6	MAX MIN	71 57	72 59	69 59	75 60	75 60	76 62	78 62	77 61	77 62	77 60	76 61	74 61	75 60	72 60	71 55	69 56	74 55	70 55	76 60	72 57	72 63	72 64	72 61	75 55	73 57	73 58	71 61	71 60	73.4 59.5			
WAIALUA 847	MAX MIN	77 58	76 56	76 58	76 62	77 62	84 63	80 65	85 58	82 58	78 64	76 58	80 60	81 66	79 65	76 64	74 66	77 56	79 61	81 56	81 61	87 64	84 64	82 68	84 64	73 58	80 58	77 60	77 64	78.8 60.3			
WAIKIKI 717.2	MAX MIN	77 59	79 59	83 61	82 62	83 63	83 64	83 66	85 65	86 63	85 67	85 67	83 67	82 67	82 63	82 63	82 64	81 59	81 57	82 56	83 61	86 66	84 68	85 69	84 68	79 56	81 61	79 63	78 61	82.4 62.7			
WAIMANALO EXP FM 795.1	MAX MIN	76 59	75 58	77 60	77 62	77 64	79 64	78 65	79 70	81 64	83 65	82 66	78 68	79 66	74 63	79 61	78 60	81 60	77 58	79 59	82 63	81 68	83 68	80 68	77 67	79 61	75 63	75 65	78.3 63.8				
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN			81 58	82 61	78 68	84 61	78 66	82 60	89 62	84 64	82 66	83 67	78 66	78 60	80 66	78 62	76 57	77 55	80 58	82 60	81 62				81 66	75 60	79 63	82 68	79 58	80.4 62.3		
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	72 59	73 62	77 57	75 56	78 57	78 58	77 64	79 62	79 60	79 62	81 63	81 62	78 64	75 58	76 58	73 62	74 55	75 58	74 53	75 55	77 58	78 62	75 65	75 65	74 64	75 59	76 60	77 58	76 64	76.2 60.1		
LANAI CITY 672	MAX MIN	71 56	75 61	76 59	76 58	76 58	74 59	74 64	81 60	81 61	79 63	79 60	75 60	74 61	74 59	73 60	73 55	72 57	72 53	77 58	77 53	77 63	77 63	73 66	72 62	72 58	75 58	69 55	70 61	74.8 59.4			
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	56 40	55 42	55 43	58 45	59 35	60 35	56 40	61 39	61 44	60 41	57 40	60 41	62 44	54 37	49 37	54 43	56 35	63 41	64 42	68 43	63 41	59 42	58 46	58 44	57 46	58 39	63 43	62 44	58.8 41.4			
HANA AIRPORT 355	MAX MIN	75 65	75 66	75 64	77 62	80 72	80 63	80 64	81 65	81 67	84 68	80 71	79 69	81 63	76 63	80 69	85 65	85 68	81 61	79 58	78 60	80 63	83 65	82 63	82 65	86 70	73 60	77 68	82 78	78 62	79.7 65.5		
KAANAPALI AP 453.1	MAX MIN	76 62	78 58	81 58	82 59	81 59	84 61	80 62	84 61	85 65	84 61	83 62	83 65	80 61	78 65	81 69	79 69	78 61	78 58	80 60	81 64	84 70	81 67	81 65	85 63	80 60	84 61	80 67	84 61	80.7 62.5			
KAHULUI WSO 398 AP	MAX MIN	78 70	81 65	80 63	81 63	85 63	81 63	83 64	88 63	85 65	84 67	82 66	82 65	77 67	80 66	80 68	83 63	78 66	79 68	81 58	83 60	85 66	80 71	80 73	76 71	78 65	84 63	79 66	78 66	81.1 65.7			
KAILUA 446	MAX MIN	78 63	74 64	76 61	76 61	76 63	76 62	76 63	78 67	76 66	80 67	80 65	77 65	76 65	74 65	78 65		79 59	74 59	75 60	79 63	80 68	77 67	79 68	80 78	69 61	71 60	78 63	75 63	76.6 63.1			
KEAWAKAPU BEACH 260.2	MAX MIN	82 65	82 64	81 61	81 62	85 59	84 61	82 62	82 62	85 61	85 68	87 63	85 67	80 63	81 66	80 69	80 60	80 58	83 59	84 65	85 65	83 67	79 68	83 68	78 61	78 62	84 62	84 65	85 63	82.3 63.3			
KULA BRANCH STN 324.5	MAX MIN	67 55	63 56	67 55	70 51	70 51	71 54	70 54	74 54	72 56	73 59	73 53	72 54	68 55	67 56	63 54	64 49	69 47	65 48	73 46	69 52	72 58	72 59	66 59	69 59	70 56	66 58	68 57	69.1 54.9				
KULA HOSPITAL 267	MAX MIN	72 57	65 57	69 56	69 54	72 53	71 54	71 56	74 57	76 57	73 57	69 54	73 54	63 55	69 55	65 52	64 48	67 48	71 52	71 52	71 52	72 52	71 55	72 59	72 59	67 52	68 52	74 53	67 53	69.8 54.3			

DAILY TEMPERATURES

HAWAII AND PACIFIC
FEBRUARY 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 36.1	MAX MIN	80 62	83 64	82 64	85 63	85 61	84 61	86 61	85 61	85 63	86 68	84 64	82 62	80 65	82 62	81 64	80 68	81 64	83 59	81 58	83 58	85 62	79 64	83 70	82 70	79 68	81 56	85 57	84 60	85 61		82.8 62.8	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	72 48	71 55	65 48	70 50	70 50	71 51	70 52	73 50	75 50	71 56	70 52	67 52	68 48	69 56	73 52	72 49	71 52		71 51	73 54	72 54	74 50	73 50	70 50	70 55	73 51	70 55	66 54	67 55		70.6 51.7	
HILO WSO AP 87	MAX MIN	80 62	80 65	80 62	80 62	82 66	83 62	82 66	85 66	85 63	82 67	78 69	80 65	83 61	81 62	81 68	85 65	76 62	78 60	82 63	81 63	84 62	82 60	86 63	84 63	83 65	75 67	88 63	73 66	78 67		81.3 63.9	
KAINALIU 73.2	MAX MIN	77 58	78 62	76 60	77 57	78 59	81 59	81 61	81 62	77 62	78 65	78 63	80 61	80 64	77 60	81 64	81 62	75 56	76 58	76 59	77 59	83 62	83 63	83 62	80 61	79 65	81 63	78 63	80 65	79 64		79.0 61.3	
KAMUELA 192.2	MAX MIN	71 58	70 56	69 57	70 48	73 52	76 47	76 49	73 61	76 49	77 48	77 48	71 50	76 59	69 56	69 58	71 58	64 48	71 48	72 46	71 49	73 50	75 54	72 58	71 58	72 56	70 56	69 52	77 56	69 61		72.1 53.3	
KAPOHO BEACH 93.11	MAX MIN	82 62	84 65	82 63	85 64	84 69	87 67	84 67	85 68	89 68	88 70	83 71	85 67	85 65	83 65	84 66	85 65			86 64	88 65	85 65	88 66	84 65	85 66	84 69	81 68	79 68	84 65	75 67		84.2 66.3	
KONA (KAILUA) 68.3	MAX MIN																																
KULANI CAMP 79	MAX MIN	67 44	64 46	65 42	65 42	65 43	66 43	68 47	67 44	68 46	62 52	64 49	69 48		66 46	68 47	68 47	66 51	67 37	64 35	64 36	65 36	76 41	75 44	68 49	71 44	62 48	56 48	69 47	60 52		66.3 44.8	
MAUNA KEA OBS 111.2	MAX MIN	40 29	39 26	35 24	34 24	43 25	44 24	44 24	45 27	53 33	42 33	50 33	36 28				39 29	40 29	50 30	45 33	44 42	42 41		37 37	34 34	42 42	45 45	45 26	35 23		41.8		
MAUNA LOA SLOPE OBS	MAX MIN	57 46	54 40	52 38	52 35	50 32	50 33	55 34	53 37	55 37	59 40	54 36	46 34	50 37	52 36	53 38	55 42	56 39	57 41	59 40	60 40	54 39	53 39	51 37		55 36	57 42	48 36	47 36		53.5 37.8		
MOUNTAIN VIEW 91	MAX MIN	79 57	77 56	76 59	79 56	79 60	77 60	77 62	80 59	80 59	79 60	81 60	73 61	75 58	77 59	79 58	78 58	76 55	78 54	77 54	79 57	78 58	82 58	86 58	86 61	86 61	86 58	79 61	69 61	77 61	68 61		78.2 58.6
NAALEHU 14	MAX MIN	78 60	78 63	75 61	78 60	78 65	80 66	79 66	80 68	80 69	80 70	80 64	79 65	76 63	82 59	83 61		87 59	77 60	80 62	80 65	81 62	83 66	84 65	83 62	82 67	77 66	80 65	78 65		79.9 63.9		
OOKALA 223	MAX MIN	78 67	68 65	71 64	76 63	77 67	78 65	81 65	74 60	78 67	81 66	81 66	73 65	77 65	74 65	75 64	80 65	82 68	71 63	75 64	77 64	79 65	80 64	80 65	81 66	80 66	77 66	72 64	82 63	74 64		77.0 64.9	
OPIHIHALE 2 24.1	MAX MIN	75 62	80 62	79 57	78 56	81 58	81 60	80 58	80 57	80 61	78 59	82 59	85 63	80 59	83 65	81 64	75 56	78 56	78 55	80 57	81 59	87 59	82 58	81 57	80 59	85 60	78 60	84 60	75 62	80 59		80.2 59.2	
PUUKOHOLA HEIAU 98.1	MAX MIN	83 68	81 67	82 65	82 63	80 64	84 64	87 68	87 66	87 64	86 65	86 66	84 65	84 68	81 64	82 65	83 67	80 57	83 58	84 63	82 64	85 64	87 67	87 68	85 68	86 68	82 64	86 66	86 65	83 66		84.0 65.0	
SOUTH KONA 2.31	MAX MIN	73 49	71 56	70 51	76 53	71 53	79 58	77 57	79 56	78 53	75 59	66 52	77 57	77 58	74 55	74 57	76 60	74 60	78 53	74 49	78 50	79 54	79 57	77 57	73 57	77 58	79 56	79 58	77 58	68 57		75.2 55.0	
UPOLU POINT USCG 159.2	MAX MIN	81 68		79 68	81 71	77 70	79 70	84 70		83 66	81 70	84 69	79 67	82 68	76 68	81 70	81 70	77 67	77 65	77 69	80 69	80 70	87 74	83 70	82 71	82 70	79 66	78 69	82 67	82 70		80.5 69.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
FEBRUARY 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	78 73	80 72	80 72	82 74	84 74	82 74	83 75	83 75	82 74	82 74	83 75	79 71	80 72	80 74	81 73	79 73	79 72	81 72	82 74	82 74	83 76	84 76	83 75	84 76	80 73	82 73	83 74	83 76	83 75			81.6 73.8
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	88 77	88 76	87 77	88 74	88 76	88 76	82 75	86 75	85 76	87 74	87 74	88 77	88 76	88 74	88 73	87 76	90 75	88 74	91 75	88 75	88 81	89 77	88 76	89 81	88 77	88 75	88 77	87 76	87 76			87.7 75.9
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN																																
CLARK AFB LUZON	MAX MIN																																
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	85 66	81 73	83 73	84 74	84 74	84 72	82 71	83 71	82 74	84 74	82 71	82 71	82 73	83 71	94 71	85 74	85 75	82 73	84 73	83 72	82 71	79 73	80 73	80 74	81 73	76 71	85 72	86 71	84 67			82.7 72.1
INARAJAN - NASA	MAX MIN	85 73	85 71	85 72	85 72	86 72	86 73	86 72	86 72	85 74	85 72	85 72	85 72	85 72	85 72	85 72	85 73	86 73	86 71	85 72	84 70	84 70		79 71	82 71	82 71	82 69	83 71	85 71	87 67			84.6
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	82 70	82 70	82 71	79 70	80 69	82 69	83 69	84 71	83 71	81 70	83 71	81 69	82 68	81 71	80 70	82 71	82 72	83 72	82 73	81 71	86 74	85 73	82 71	76 70	79 71	78 71	76 69	81 71	83 71			81.4 70.7
CAROLINE AND MARSHALL ISLANDS																																	
ENEWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 74	88 74	87 75	88 75	84 74	87 73	83 76	85 73	85 72	86 73	86 72	87 74	83 76	87 74	87 75	87 74	80 73	86 73	85 75	89 72	89 73	89 72	87 75	88 75	88 74	88 75	88 74	89 73				86.6 73.8
KWAJALEIN MISSILE RGN	MAX MIN	86 79	87 78	86 75	87 75	87 75	87 79	87 78	86 79	85 77	86 79	86 75	86 78	86 77	86 77	87 78	87 77	87 78	87 77	88 79	88 77	88 78	87 75	87 78	84 75	86 76	86 80	87 78	87 79	87 79			86.6 77.4
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	87 77	87 78	86 77	86 77	85 76	86 75	86 76	87 75	86 75	86 76	84 76	66 78	85 79	86 78	86 78	87 75	85 74	87 77	88 78	87 79	88 80	87 76	86 76	82 71	85 78	87 79	85 76	86 74				86.0 76.5
METALANIM	MAX MIN	85 74	85 73	85 75	83 69	84 70	85 75	84 73	82 68	84 71	82 71	87 71	83 72	84 74	84 71	84 70	84 72	86 74	84 74	85 75	86 69	85 68	88 70	87 71	88 74	88 70	88 72	88 69	89 67				85.3 71.4
PONAPE WSO	MAX MIN	89 78	88 79	89 79	86 74	85 75	89 78	85 76	81 70	86 78	83 75	87 77	86 75	88 76	89 75	87 75	86 78	87 78	86 78	89 79	86 73	86 72	90 76	90 75	89 79	90 74	91 75	91 73	90 73	91 73			87.6 75.7
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	86 77	85 76	85 74	86 76	85 75	86 78	85 78	86 79	86 79	85 78	83 76	86 78	85 78	85 75	86 78	86 74	86 78	84 77	85 79	81 73	87 77	87 76	87 79	89 78	87 77	86 78	87 78	88 78	87 79			85.8 77.1
MOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	87 75	88 75	87 75	87 77	86 73	87 75	87 78	86 73	84 73	87 74	86 74	86 73	83 77	87 76	85 74	87 76	85 73	87 74	85 74	87 76	86 74	85 76	80 74	84 75	86 76	85 75	86 72	86 71	86 75			85.8 74.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LIHUE WSO AP 1020.1	EVAP	.15	.10	.06	.24	.17	.19	.17	.15	.16	.26	.10	.16	.15	.08	.30	.33	.30	.20	.16	.13	.33	.30	.21	.31	.27	.15	.02	.25	.10		5.50
	WIND	84	73	64	70	98	78	101	119	70	93	97	81	42	72	128	162	85	73	80	76	71	115	89	112	143	77	113	64	158		2688
	MAX	73	71	72	75	76	78	79	80	83	82	75	79	79	76	76	75	75	76	81	79	81	78	80	81	78	78	71	73	66		76.8
	MIN	56	52	54	56	52	54	60	61	61	58	57	62	53	56	56	54	51	50	50	58	53	57	57	62	61	52	50	58	58		55.8
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.15	.10	.15	.40	.15	.15	-	-	.30	.26	.19	.30	.15	.15	.29	.17	.36	.23	.21	.35	.37	.33	.00	.25	.25	.30	.15	-	.12		6.508
	WIND	17	13	14	26	19	25	20	18	17	13	36	25	27	17	47	64	45	22	21	22	22	24	34	48	45	35	21	23	18		778
	MAX	79	78	78	85	86	85	84	88	88	91	88	87	84	86	85	78	84	83	84	87	88	90	89	87	90	-	86	-	80		85.1
	MIN	59	59	60	62	59	59	64	64	65	68	65	61	61	61	61	62	61	58	58	58	59	62	64	63	-	55	54	56	59		60.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
■ ■ ■ EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.23	.28	.30	.25	.13	.30	.29	.23	.31	.32	.25	.19	.18	.34	.38	.35	.47	.21	.28	.30	.25	.24	.25	.28	.16	.10	.30	.24	.27		7.68
	WIND	131	134	131	153	124	116	133	73	116	160	149	116	88	117	147	236	198	181	148	117	92	65	58	157	150	186	95	135	152		3838
PAGO PAGO WSO AP	EVAP	.14	.12	.08	.23	.24	.10	.17	.31	-	.23	-	.24	.25	.26	.28	.11	.26	-	-	-	.65	.22	.42	.27	.22	.30		.10	.32		6.968
	WIND	47	47	22	33	43	45	58	35	46	40	28	43	103	41	39	21	39	63	66	44	105	155	149	59	127	93	121	73	73		1858
	MAX	95	98	96	103	100	96	95	90	92	93	92	94	102	98	102	93	99	91	94	91	100	98	98	99	98	99	100	100	100		96.8
	MIN	76	77	79	75	77	77	76	71	75	75	71	72	73	74	72	74	74	72	71	70	72	75	73	72	72	72	75	71	71		73.6
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.30	.23	.14	.25	.35	.26	.22	.20	.16	.31	.07	.21	.31	.19	.32	.33	.40	.34	.29	.20	.20	.16	.02	.02	-	-	.06	.37	.08		6.438
	WIND	11	120	174	153	165	115	136	169	169	168	169	145	152	135	155	164	151	167	166	144	164	140	162	109	78	105	96	72	21		3875
	MAX	87	80	82	84	84	85	81	83	83	82	80	83	82	82	85	85	87	82	84	84	83	78	78	80	79	73	80	91	85		82.5
	MIN	66	68	69	68	75	66	75	65	68	69	68	68	68	68	66	68	68	68	67	68	68	68	70	71	70	73	67	70	69		68.7
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP	.30	.20	.23	.21	.18	.23	.29	.26	.22	.38	.20	.21	.17	.22	.16	.21	.23	.26	.30	.19	.11	.15	.23	.12	.19	.13	.15	.24	.19		6.16
	WIND	54	76	123	101	85	93	124	122	118	135	117	104	114	140	89	121	153	120	142	106	99	89	79	75	87	71	41	51	97		2926
	MAX	90	89	89	88	88	89	94	82	82	91	91	91	91	90	86	89	87	87	85	88	86	84	79	88	93	86	95	94	88		88.3
	MIN	73	71	72	72	71	71	72	72	75	72	72	71	70	71	71	71	72	70	72	70	72	72	72	72	74	73	71	72	73		71.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983		0140	02	KOLOA	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A	0145	01	KAWAIIHAW	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A	0240	02	KOLOA	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A	0456	02	KOLOA	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A	0470	02	KOLOA	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIIHAW	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAHU 1006	A	1038	02	LIHUE	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2		1140	02	KAUAI	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAUEI TUNNEL 1053	A	1170	01	KAWAIIHAW	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945		2161	03	WAIIMEA	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A	2222	02	LIHUE	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A		2227	01	HANAUEI	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIIMEA	22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAW	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104		3159	01	KAWAIIHAW	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A	3982	01	KAWAIIHAW	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944		4272	03	WAIIMEA	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANAUEI	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANAUEI	22 14	159 24	180	7A	7A			VALERIE BYRD
KOLO 1033		4735	03	WAIIMEA	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIIHAW	22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A	4950	02	KOLOA	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A		5560	02	LIHUE	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A	5575	02	LIHUE	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKANELI 965	A	5864	03	WAIIMEA	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIIMEA	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A	6433	01	WAIIMEA	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A	6529	01	KAWAIIHAW	22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R	6565	03	WAIIMEA	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035		6850	03	WAIIMEA	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A	6893	02	LIHUE	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115		8155	01	HANAUEI	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANAUEI	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040		8205	03	WAIIMEA	22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A	8941	02	KOLOA	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054		8958	02	LIHUE	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052		8966	02	LIHUE	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIANA 943		9253	03	WAIIMEA	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947		9629	03	WAIIMEA	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A	9955	02	KOLOA	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12		0055	01	KOOLAUPOKO	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5		0248	02	OAHU	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807		0300	03	EWA	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741		0507	03	EWA	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19		1308	02	OAHU	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A	1540	03	EWA	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2		1918	03	EWA	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	#	1919	02	HONOLULU	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3		2410	04	WAILUA	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAUPOKO	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A	2570	01	KOOLAUPOKO	21 42	157 59	15				C	KUILIMA HYATT R HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	21 24	157 45	10				C	KAILUA FIRE STATION

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
FEBRUARY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES.)	
ISLAND OF OAHU												
KALIHU RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910	8A	MID			BOARD OF WTR SUPPLY HAWAII STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO NEAL ADAMS CHARLES COOKE
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190		8A			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40	7A				
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725	7A				
KOOLAU DAM 833	A 4766	05	WAIHANA		21 30	157 58	1160	8A				
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240			C		
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400			C		
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300	6A				
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220	7A				
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC D L GRUBB CC DEPT PKS RECREATION	
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395			C		
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20	9A				
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025			C		
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048	MID				
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410	WI				
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A		C		
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10	6P				
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480	10A				
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID		BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC	
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120			C		
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20			C		
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750			C		
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315	7A				
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79	8A				
WAIHANA DAM 863	8945	05	WAIHANA		21 30	158 03	854			C		
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB CLOSED 10/31/79 WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL U H WAIMANALO EXP FARM	
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALEE 896.3	9190	01	KOOLAULO		21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A	C		
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			
WAIANA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180			C		
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY	
WAIMEA 892	9593	05	WAIALUA		21 38	158 04	330			C		
WAIPAHU 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A		ART MONTOYA KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN)	
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70			C		
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140			C		
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825			C		
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070			C		
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700			C		
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI		MOLOKAI RANCH CO LTD	
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI		U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY	
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A		C		
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKEAKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF MAUI													
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			C	ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050						MAUI LAND-PINEAPPLE CO
HAELAAJ 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			C	MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A				U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			C	HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALLIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			C	MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A				HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A			C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO				HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			C	MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A				MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			C	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO				HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			C	AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650		MO				EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000					C J	PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID				NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			C	E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A				E MAUI IRR CO LTD
KAUULA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			C	PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020						KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			C	HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO				E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A			C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A				HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			C	HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO				MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A			C	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A				KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A			C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			C	PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO				E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			C	PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO				MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA		21 02	156 36	340		VAR			C	MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR				E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			C	PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR				E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			C	HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO				KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830					C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			C	STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO				E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			S	HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160						E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			C	HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310						KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			C	HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A				PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A			C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A				PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			C	WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A				WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			C	E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320						E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370					C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630						E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			C	WAILUKU SUGAR COMPANY
WAILOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC				HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			C	W H GREENWELL RANCH
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI				MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			C	DAVIES HAMAKUA SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAKALAU 142		0905	02	S HILO	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03	KA'U	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02	HAMAKUA	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54		1303	02	KA'U	19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01	N KOHALA	20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R	1492	02	S HILO	19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04	N KONA	19 38	155 55	3220		MO			U S SOIL CONS SERVICE
HONAUNAU 27		1665	04	S KONA	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02	N HILO	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02	S HILO	19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A	2047	04	N KONA	19 40	155 53	6250		MO			U S SOIL CONS SERVICE
HUALALAI 72	A	2151	04	N KONA	19 42	155 52	8190		MO			U S SOIL CONS SERVICE
HUEHUE 92.1	A	2156	04	N KONA	19 45	155 59	1960		7A			HUEHUE RANCH
KAHALOA 29	A	2327	04	SOUTH KONA	19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIWAI MAUKA 3.8		2512	03	KA'U	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01	HAWAII	20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04	KONA	19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04	N KONA	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04	HAWAII	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02	S HILO	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03	KA'U	19 02	155 40	1375		WI			KAWAIHAE RANCH
KAMUELA 192.2		3077	01	S KOHALA	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03	KA'U	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02	HAWAII	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02	PUNA	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02	PUNA	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03	KA'U	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04	S KONA	19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A	4625	03	KA'U	19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1		4680	01	N KOHALA	20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04	N KONA	19 39	156 01	30	VAR				FAA
KONA VILLAGE 93.8		4765	04	N KONA	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUM	20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78		5021	02	S HILO	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAW 68.2		5330	04	N KONA	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103		5761	02	HAWAII	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03	KA'U	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02	HAWAII	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01	N KOHALA	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03	KA'U	19 11	155 30	600		MO			KAWAIHAE RANCH
MOUNTAIN VIEW 91		6552	02	PUNA	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KA'U	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28		6697	04	S KONA	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02	N HILO	20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02	PUNA	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217		7204	01	HAMAKUA	20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUILO 221		7312	01	HAMAKUA	20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03	KA'U	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02	PUNA	19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02	PUNA	19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1		7711	02	S HILO	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	A	7721	02	S HILO	19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02	S HILO	19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A	8063	02	HAMAKUA	19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04	N KONA	19 34	155 49	4880		MO			W H GREENWELL RANCH

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ISLAND OF HAWAII												
PUUHONUA-0-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			C
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKEA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			PUUHONUA-0-HONAUNAU27.4 PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
CLOSED STATIONS ISLAND OF OAHU												
WATALEE 896.3	9190	01	KOOLAULOA		21 41	158 02	33	8A	8A			CLOSED 10/31/79
NEW STATIONS ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

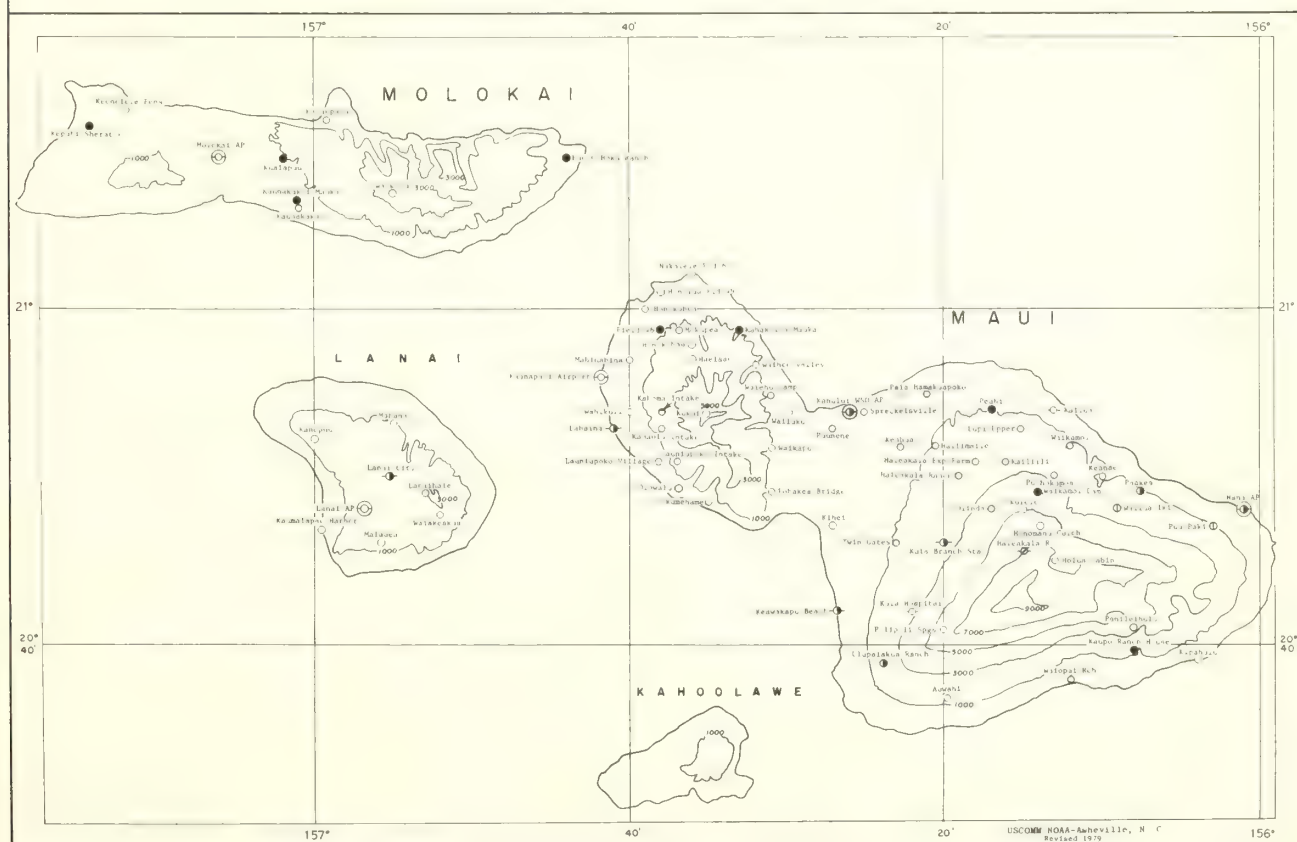
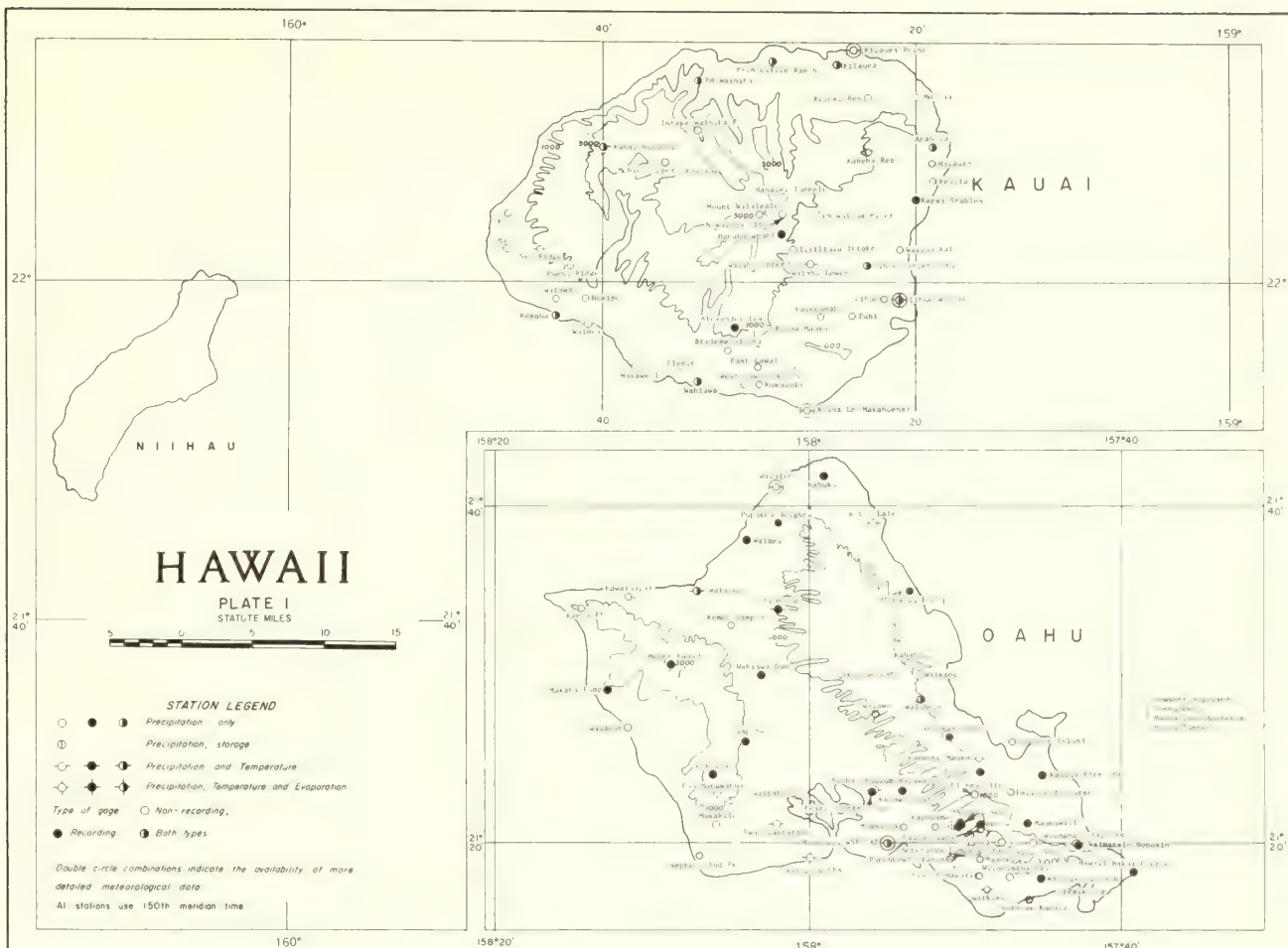
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

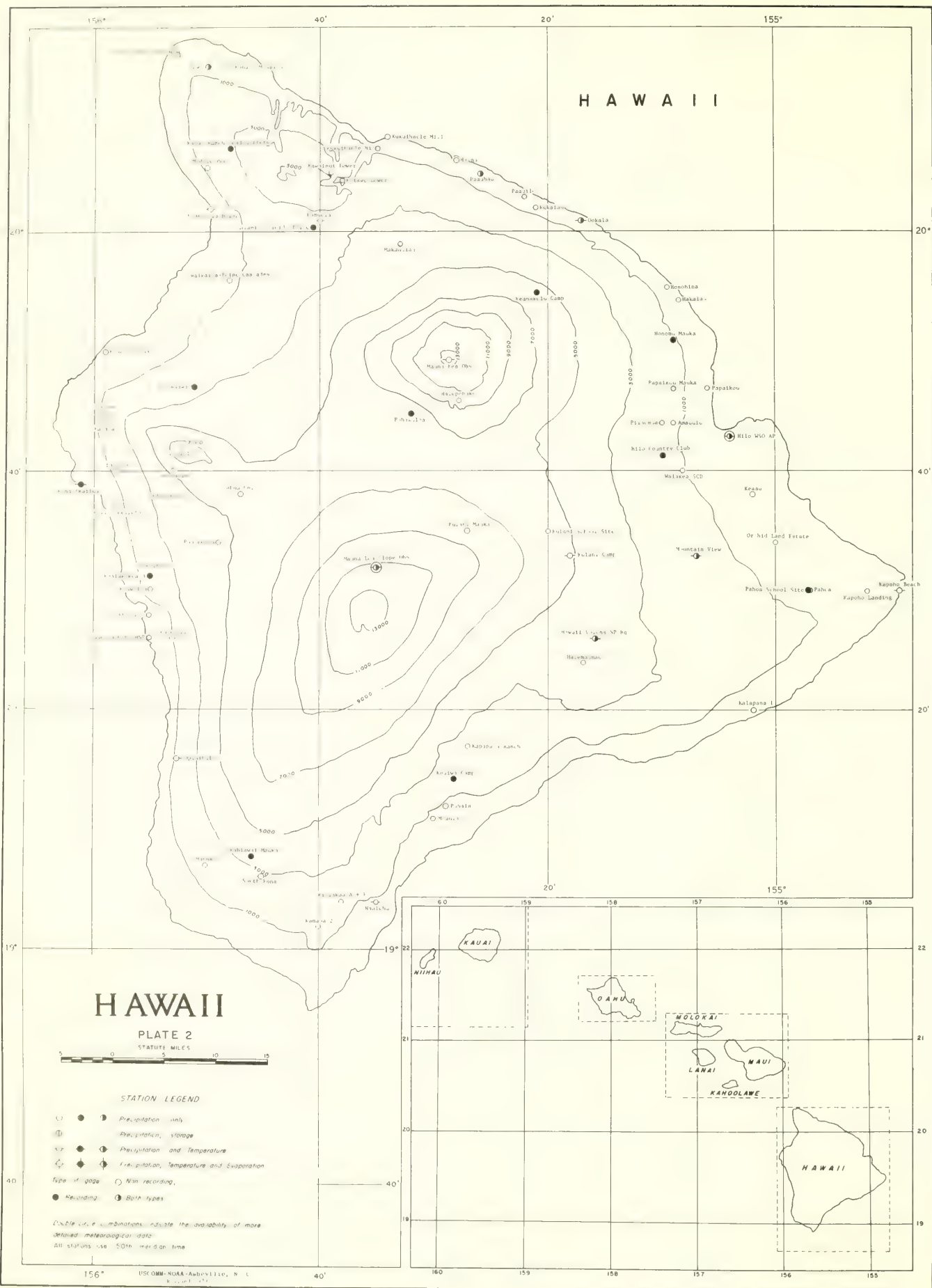
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

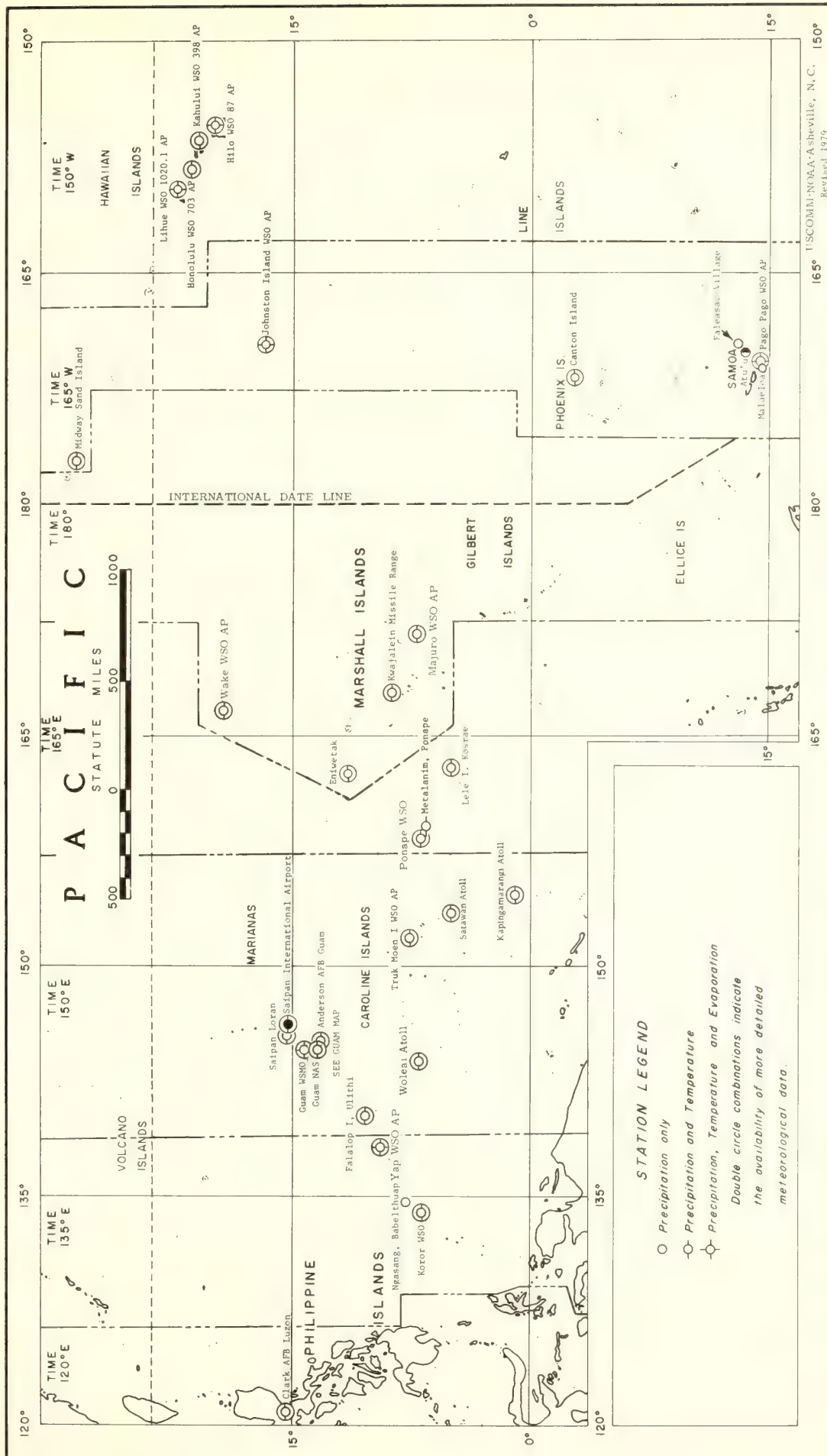
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

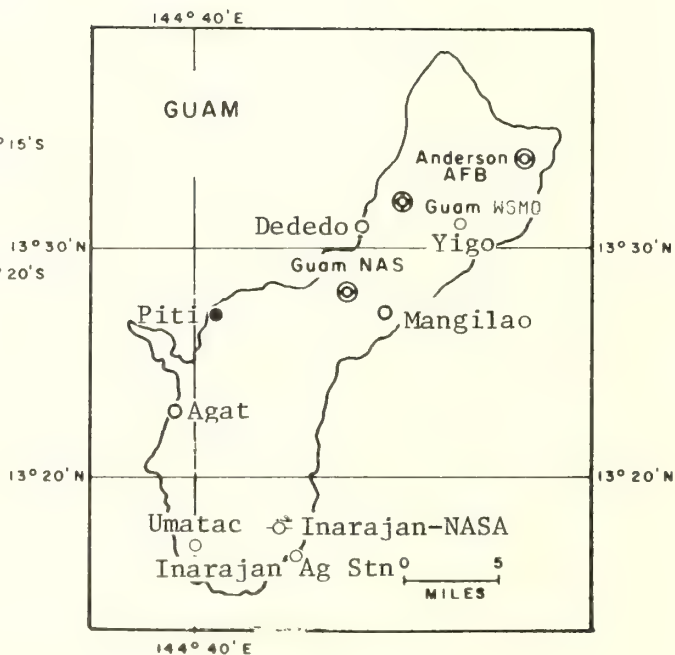
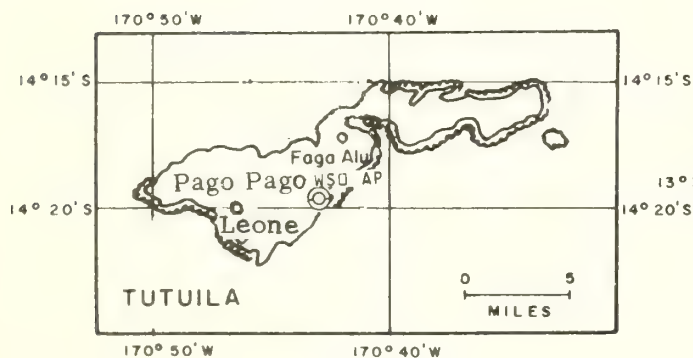
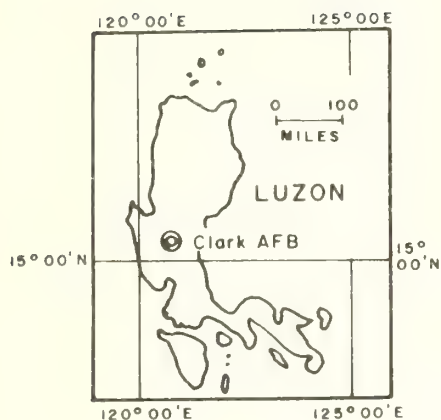
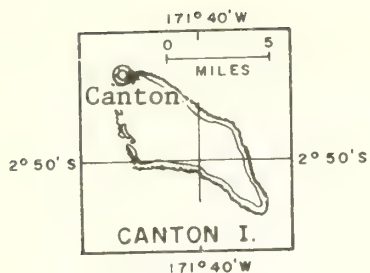
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
ATTN: Publications

USCOMM-NOAA-ASHEVILLE, N.C. 1980-930

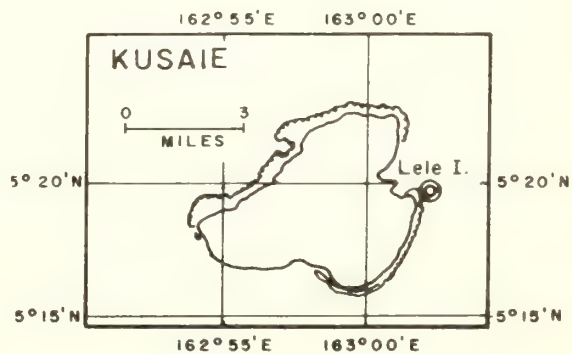
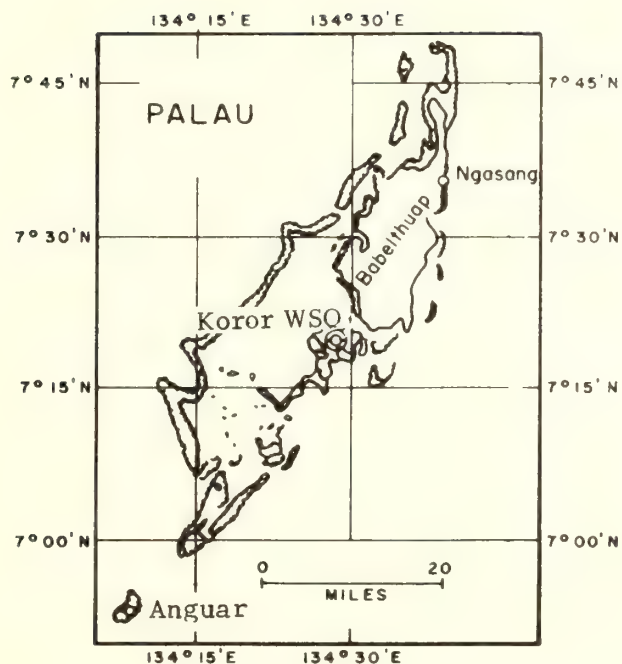
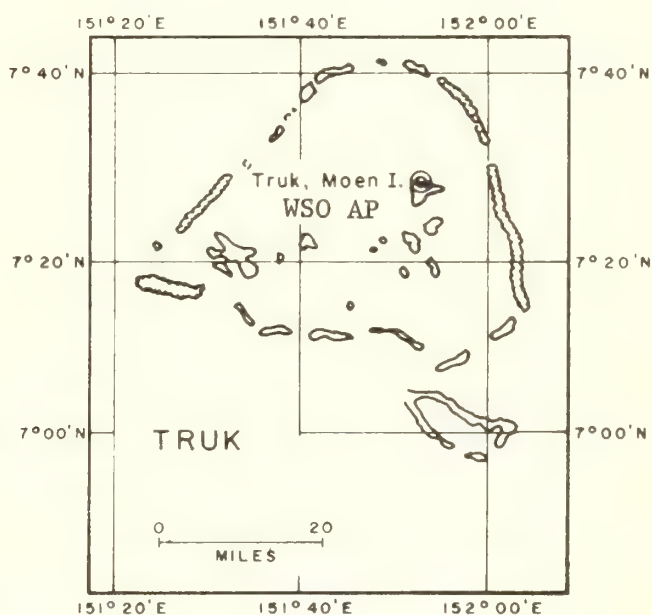
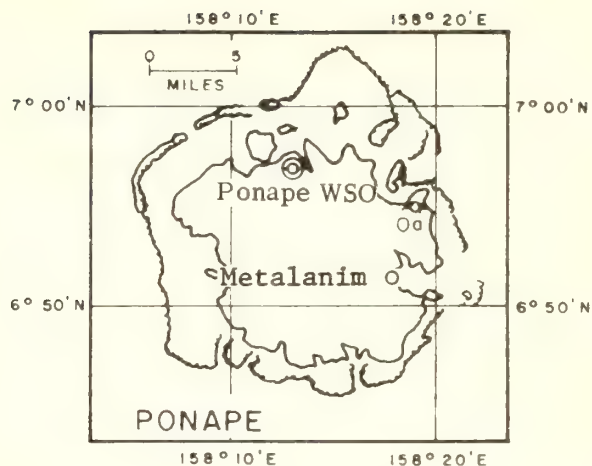
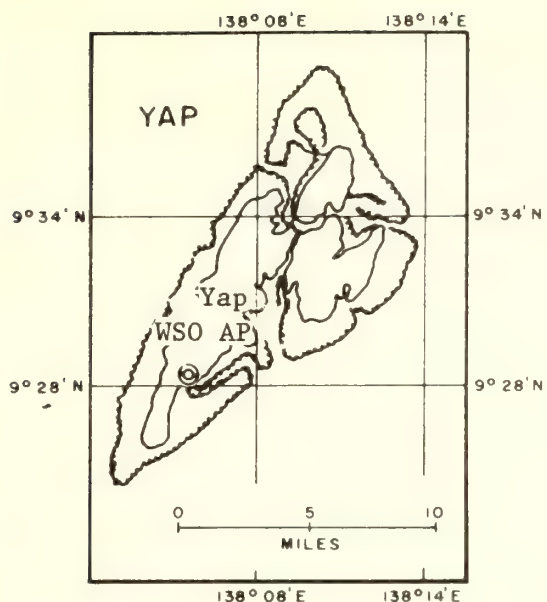




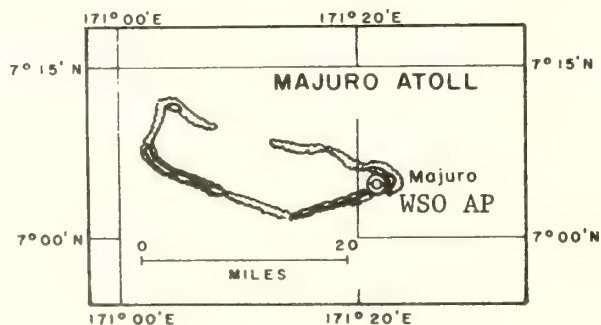
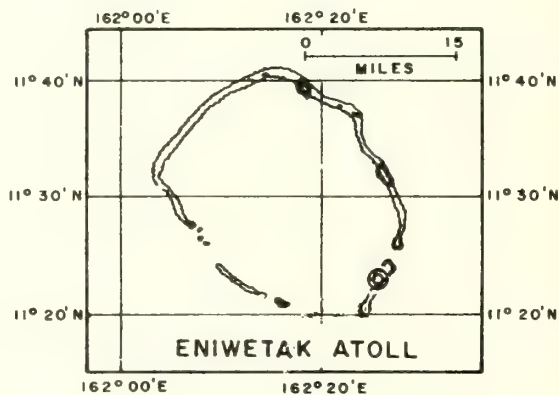
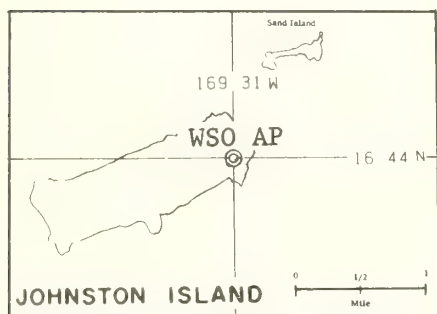
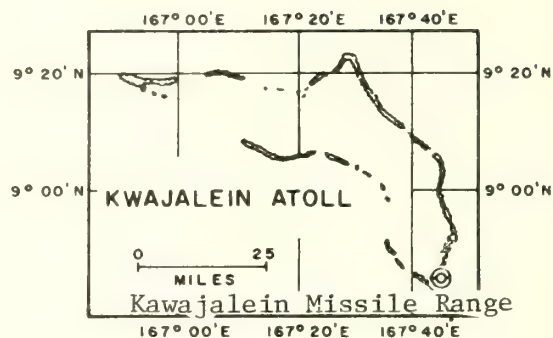
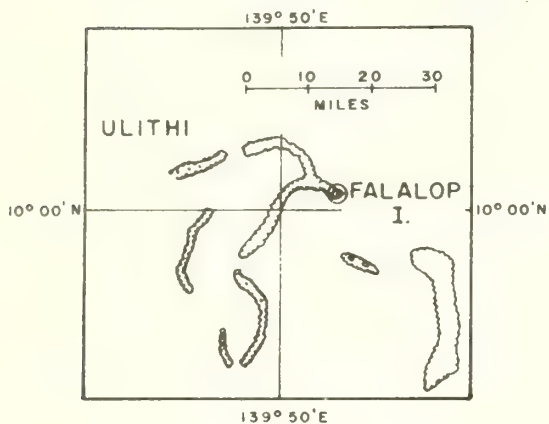
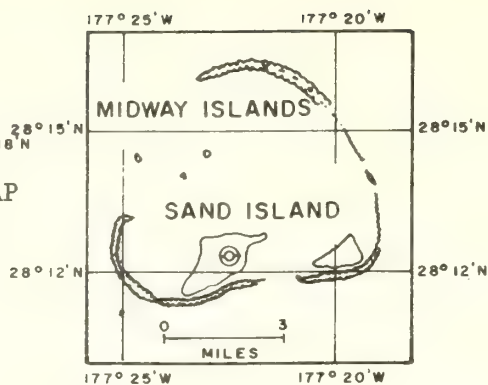
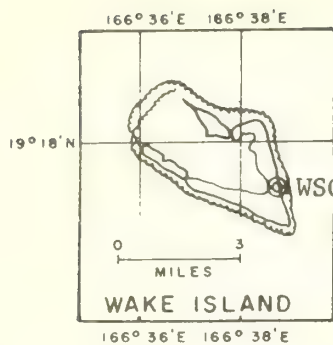




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— Reef



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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	90	DATE 11
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	20	DATE 22+
GREATEST TOTAL PRECIPITATION:	WAIAKEA SCD 88.2	HAWAII	9007	
LEAST TOTAL PRECIPITATION:	WAIAWA 943	KAUAI	24	
GREATEST 1 DAY PRECIPITATION:	KAPAPALA RANCH 36	HAWAII	23.05	DATE 17

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-	-	-	30	NE	16	-	77	76	83	2	10	12	1	0	0	25	60	8.3		
HILO WSO 87 AP	7	2.4	6.4	22++	10	24+	87	85	73	84	0	3	12	4	3	9	31	30	8.5		
HONOLULU WSO 703 AP	7	16.3	16.7	30++	8	25+	77	73	62	73	16	7	2	2	1	0	28	68	5.6		
JOHNSTON WSO AP	7	17.4	18.0	30++	6	25+	86	86	76	86	13	6	4	0	0	0	23	90	3.2		
KAHULUI WSO 398 AP	6	16.1	16.8	31	NE	11	-	78	63	77	4	14	7	1	0	0	26	56	6.1		
KOROR WSO	5	6.7	8.7	20	NE	30	87	-	78	74	0	8	8	6	0	0	22	63	8.2		
KWAJALEIN MISSILE RGN	6	15.4	15.6	23++	5	23+	80	80	67	74	12	9	1	1	0	0	23	-	8.5		
LIHUE WSO 1020.1 AP	6	16.3	16.7	29++	8	22	84	80	68	81	1	18	6	1	0	0	26	59	7.4		
MAJURO WSO AP	7	12.4	12.8	27	E	21+	79	81	75	76	2	8	10	4	0	0	24	82	9.6		
PAGO PAGO WSO AP	3	5.0	9.2	32++	31	25	88	90	77	83	0	8	12	5	2	2	29	38	7.7		
PONAPE WSO	-	-	-	18	NE	13+	80	-	74	76	4	11	7	4	1	0	27	25	9.2		
TRUK,MOEN I, WSO AP	6	9.7	10.7	25	S	04	81	-	76	75	6	8	6	2	1	1	24	56	9.4		
WAKE ISLAND WSO AP	7	11.1	11.9	30++	6	31+	82	82	70	74	7	10	2	0	0	0	19	76	4.0		
YAP WSO AP	6	9.4	10.4	20	NE	19+	87	-	77	74	2	11	6	1	1	1	22	71	8.5		

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MARCH
1980

STATION	TEMPERATURE														PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.		MIN.		TOTAL	GREATEST DAY					DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	5.00 OR MORE
											32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW												
HAWAII																										
ISLAND OF KAUAI																										
ANAOHOLA 1114	A														3.27											
PANALOHU HILL 1075		65.7	52.5	59.1		70	31+	36	2		0	0	0	0	4.40			1.00	24				12	2	1	
KILAUEA POINT 1133		77.2	67.8	72.5		80	28	64	16		238	0	0	0	3.36			.82	16				11	2	0	
KOLOA 936	A														10.35											
LIHUE WSO AP 1020 1	I/R	77.8	68.3	73.1	1.4	80	31+	65	4+		258	0	0	0	2.81	- 1.86		.62	16				7	1	0	
MAHALELE 441 1															4.37											
MANA 1026															.42	- 2.24		.20	24				2	0	0	
N WAILUA DITCH 1051	A														28.08			5.23	18							
PA WAINIHA 1115															22.75			7.42								
PUEHU RIDGE 1040															.62	- 2.63		.29	17				3	0	0	
WAHIAWA 930	A														5.32			1.78								
WAIKAI LOWER 1054		74.9	63.7	69.3		78	31+	54	3		143	0	0	0	15.47			4.61				25	10	6		
WAIKAI 947	M					89	29	58	10			0	0	0	33	- 1.89		.21	17				1	0	0	
ISLAND			68.5												7.81											
ISLAND OF OAHU																										
ALOHA STADIUM-HALAWA		79.2M	69.0M	74.1M		82	19	61	3		287	0	0	0	4.52			1.60	19						1	
B Y U LAIE 903.1		76.2	67.7	72.0		78	31+	62	19		221	0	0	0	9.76			3.64	19				12	4	4	
HONOLULU OBSERV 702.2		82.2	66.5	74.4		89	12	57	2		294	0	0	0	2.53			1.70	19				3	1	1	
HONOLULU WSO AP 703	R	80.7	69.3	75.0	2.0	83	15	61	2		317	0	0	0	3.04	- .14		1.19	18				5	3	1	
KANEHE MAJKA 781		78.0	70.4	74.2	3.0	82	28	65	2		292	0	0	0	11.17	- 3.15		6.98	19				14	2	2	
KII-KAHUKU 311		77.9M	68.2M	73.1M		80	30+				259	0	0	0				2.20	19+				2	2		
KODAI DAM 813	A														40.51			9.50	19				25	17	11	
MANOA LYON ARBORETUM		73.7	65.4	69.6		78	19+	63	10		149	0	0	0	31.25			5.81	19				27	18	10	
NUUANU RES 4 783															24.04			11.06								
OPAELEA 870	A	74.5	65.2	69.9	3.1	80	19	60	3		156	0	0	0												
PAOLOLO VALLEY 718	R														17.72			3.12	19				23	10	6	
POU MANAWAHUA 725.6		72.8	61.8	67.3		75	21+	58	1		80	0	0	0	2.76			.99	18				4	2	0	
WAIKOLE 837	A														25.35			9.45	19							
WAILUA 847	A	78.5	63.2	70.9	8	83	5	54	2		184	0	0	0	7.03	3.19		4.67	19						1	
WAIKIKI 717.2		82.5	69.2	75.9		85	31+	66	2		345	0	0	0	1.62			.34	16				4	0	0	
WAIMANALO EXP FM 795 1		77.2	68.4	72.8		79	31+	66	2		251	0	0	0	1.40			.39	17				6	0	0	
WAIKOLE 750	A														2.56			1.04	19						1	
ISLAND			72.4												12.35											
ISLAND OF MOLOKAI																										
MOLOKAI AP 524		79.7	65.2	72.5		86	13	60	3		235	0	0	0	2.05			.67	17				4	2	0	
ISLAND			72.5												2.05											
ISLAND OF LANAI																										
LANAI CITY 672	A	72.9	61.8	67.4	1.0	79	19	58	3		82	0	0	0	2.09	- 2.43									0	
ISLAND			67.4												2.09											
ISLAND OF MAUI																										
HALEAKALA EXP FARM 434	A	57.3	42.5	49.9	- .3	65	3	38	9		0	0	0	0	43.84			5.90	23				27	19	15	
HALEAKALA R S 338		78.5	69.1	73.8		81	27+	62	2		280	0	0	0	19.68			14.16	24				19	12	9	
HANA AIRPORT 355															13.31			5.23	16				22	8	5	
HONOKOHUA 493	A	80.8	66.2	73.5		86	8	58	2		272	0	0	0	2.41			.57	17				7	2	0	
KANAPALI AP 453 1																										
KAHULUI WSO 398 AP	R	81.2	70.0	75.6	3.4	86	30	62	2		335	0	0	0	2.93			.06					8	1	0	
KAILUA 446	A	73.4M	63.7M	68.6M	.5	76	3	59	17+		119	0	0	0	37.36			24.40								
KEANAE 346															53.10											
KIPAHUJ 258															5.29	- 4.06		.52	14+				23	2	0	
KULA HOSPITAL 267		70.4	54.3	62.4	1.2	74	23+	50	3+		2	0	0	0	5.54			2.01	2.00	19+			6	4	2	
LAHAINA 361		84.5	65.4	75.0	3.1	87	30+	61	4+		314	0	0	0	2.65			.61					4	1	1	
PAIA 406															7.39			3.21					22	3	1	
WAILUKU 786	A														3.14	- 1.02										
ISLAND			68.4												18.36											
ISLAND OF HAWAII																										
HAWAII VOLCNS NP HQ 54	R	63.1	52.7	57.9	1	70	7+	46	2		0	0	0	0	70.36			58.61					28	23	16	
HILO WSO AP 87	A	78.6	65.9	72.3	1.2	83	6	62	2		234	0	0	0	49.93			36.24					28	16	12	
HUEHUE 92.1															3.17											
KAINALIU 73.2		78.2	62.4	70.3		82	19	59	22+		169	0	0	0	8.04			2.88					12	4	3	
KAPOHO BEACH 93.11		80.4	67.6	74.0		84	9+	64	20+		288	0	0	0	15.85			3.24	17				17	9	5	
KEAAU 92																										
KONA (KAILUA) 68.3	A														47.10											
KUKUHALE HIC 199															38.91			29.05								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MARCH 1980

STATION	TEMPERATURE														PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX DEPTH IN. GROUND	DATE	NO OF DAYS	GREATEST HOUR	
											MAX.	MIN.	40° OR ABOVE	32° OR BELOW										
																								32° OR BELOW
HAWAII																								
KULANI CAMP 79	53.1	48.8M	54.0M		74	18	45	31+		0	0	0	0	86	34		14.25	14						
PAHALA 21														28	33		1.5	15						
PUUKOHOLA HETAU 98.1	86.5	67.1M	76.8M		43	11	57	9		371	1	0	0	1	67		4.88	48						
SOUTH KOA 2.31	72.1	58.4	65.3		77	6+	57	4+		39	0	0	0	13	80		1.4	14						
MAIAKEA SCD 88.2														40	07		1.4	14						
ISLAND			67.2											37.85										

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MARCH 1980

STATION	TEMPERATURE											PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											MAX.	MIN.	TOTAL	MAX. DEPTH ON GROUND					DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE		
																							90° OR ABOVE	80° OR ABOVE
PACIFIC																								
EAST OF 180TH MERIDIAN																								
AASUFOU														13.95		3.10	26	.0	0		25	5	2	
AFONO														15.04		3.01	7	.0	0		24	7	5	
FALEASAO VILLAGE														16.76		1.86	24	.0	0		22	14	6	
JOHNSTON IS WSO AP	R	83.2	74.9	79.1	2.5	85	30+	72	31+	442	0	0	0	0		- 2.01	.29	3	.0	0		4	0	0
MIDWAY SAND ISLAND		73.0	65.0	69.0	2.6	77	26+	59	2	133	0	0	0	0		- 2.19	.32	28	.0	0		2	0	0
MALAELOA														18.17		3.18	25	.0	0		23	11	6	
PAGO PAGO WSO AP	R	87.7	76.7	82.2	1.8	90	29+	74	7+	543	2	0	0	0	14.84	2.77	3.38	25	.0	0		21	9	4
WESTERN PACIFIC ISL, NORTH OF 12 N																								
AGA1														1.66		.39	29	.0	0		7	0	0	
ANDERSEN AFB GUAM		82.3	75.7	79.0	.5	84	31+	73	9	440	0	0	0	0	2.03	-.67	.38	4	.0	0		8	0	0
CLARK AFB LUZON		89.1	72.4	80.8	.3	93	9+	70	21+	496	22	0	0	0	4.32	3.47	1.57	29	.0	0		5	3	2
DEDEDG														4.61		.73	5	.0	0		11	5	0	
GUAM NAS		85.3	74.5	79.9	.1	87	28+	72	8	470	0	0	0	0	2.74	.46	.51	4	.0	0		9	1	0
GUAM WSO														3.42		.62	4	.0	0		13	1	0	
INARAJAN AG STN	R	83.4	71.7	77.6	.1	85	28+	68	19+	397	0	0	0	0	6.39	.48	.90	20+	.0	0		4	0	0
INARAJAN - NASA		85.7	74.5	80.1		87	31+	70	22+	479	0	0	0	0	3.59		.63	13	.0	0		11	2	0
MANGILAO														2.85		.48	5	.0	0		11	0	0	
SAIPAN LORAN																								
UMATAO																								
WAKE ISLAND WSO AP	R	83.6	73.0	78.3	.6	86	28+	70	30	418	0	0	0	0	1.11	-.49	.44	15	.0	0		2	0	0
TIGO														6.29				.0	0					
CAROLINE AND MARSHALL ISLANDS																								
FALALOP I ULITHI ATOLL																								
KAPINGAMARANGI ATOLL	R	88.2	74.5	81.4	.3	90	31+	73	27+	514	2	0	0	0	5.53	- 2.26	.88	13	.0	0		14	6	0
KOROR WSO	R	88.0	79.5	83.3	1.6	89	26+	74	28	576	0	0	0	0	1.20	- 5.01	.64	28	.0	0		2	1	0
ELA I KOSRAE																								
MAJURO WSO AP	R	85.7	76.8	81.3	.1	87	29+	73	30	513	0	0	0	0	5.05	4.20	.69	30	.0	0		14	4	0
METALANIM		86.5	72.0	79.3		89	31+	68	22	449	0	0	0	0	7.30		1.22	29	.0	0		16	5	2
PONAPE WSO	R	88.4	77.1	82.8	2.0	90	31+	73	1	557	7	0	0	0	8.11	- 6.93	1.95	14	.0	0		12	5	1
ATAHAN ATOLL																								
ROK MOEN I WSO AP	R	86.5	77.0	81.8	.5	88	28+	73	27+	527	0	0	0	0	8.14	.16	3.63	11	.0	0		10	4	2
MOLEAI ATOLL																								
AP WSO AP	R	87.1	74.9	81.0	.0	88	30+	72	2	503	0	0	0	0	6.42	.84	2.13	18	.0	0		9	3	2

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DAILY PRECIPITATION

HAWAII AND PACIFIC
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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	3.27			.02	.65		.07			.06	.10	.03	.05	.12			1.50	.06	.12				.23	.12	.05							.09
BYRSEDWOOD STA 985	A	10.06			.01	.36	.20				.35	.41	.17	.03	.15	.73		1.40	.73	.84	.07	.08			1.68	.87	.51	.05				.15	
EAST LAMAI 934	A	10.44			.10	.65	.41	.69			.31	.40	.85	.20	.22			2.14	.86	.30	.14	.23			1.05	1.07	.42	.07				.10	
ELELEE 927	A	3.49			.02	.04	.03				.07	.08	.25	.01	.01			.98	.23	.14	.04				.52	.62	.24					.15	
HALAUA 1110	A	4.17			.03	.87	.04	.02			.03	.16	.07	.04	.12			1.84	.07	.20	.03				.38	.15	.07					.05	
HALENAHANO 1006	A	8.40			.03	.07	.98	.23	.33		.27	.21	.13	.04	.18			1.52	.43	.56	.11	.12			1.78	.72	.28		.05			.36	
HANAIEI TUNNEL 1053	A	24.40				.05												.24		.11					.07	.06						24.40	
HUKILO 945	A	53				.05												3.24	3.92	2.48	.51	.20			1.81	1.37	.38	.22	.39			.62	
ILILIULA INTAKE 1050	A	24.55			1.11	.14	.92	1.48	1.74		1.21	1.03	.70	.11	.21			10.10	2.15	3.42					17.00	17.00						1.62	
INTAKE ILIHIKA PC 1086	A	42.24				1.75					2.00			4.20																			
KANALOHULULU 1075	A	4.40			.01	.10		.02		.20	.04	.05	.02	.13	.43			.35	.32	.29	.60	.03		.18	2.00	30	.09		.02	.02		.11	
KANEHA RESERVOIR 1092	A	9.70			.05	.04	.12	.20	.23		.17	.22	.16	.05	.26			.32	.40	.78	.11	.15			1.75	.23	.21		.04			.03	
KELAIA 1112	A	2.38			.03	.30		.02			.05	.10	.02	.03	.07			.12	.07	.05					.02	.04							
KEKANA 944	A	6.37			.06	.25	.51	.08	.33	.23	.08	.17	.17	.05				1.97	.49	.62	.17	.03			.59	.16	.17	.02					
KILAUEA 1134	A	3.38																															
KILAUEA POINT 1133	A	3.36			.05	.03	.05	.03	.24	.1	.16	.08	.10			.03		.82	.53	.16	.19	.05	.02		.03	.26	.08	.10	.20		.12	.03	
KOLO 1033	A	46																.19	.16														
KOLOA 936	A	10.35			.01	.15	.67	.84	.83		.38	.23	.44	.11	.23			.24	.50	.36	.18	.20			1.47	.90	.22	.05	.04			.30	
KOLOA MAUKA 994	A	6.86			.02		.52	.89		.16	.18	.12						2.53	.62	.33	.30	.03	.05		.19	.20	.29	.21	.03	.03		.08	
KOLOKO RES 1137	A	5.18			.01	.02	.18	.34	.26		.27	.14	.07	.10	.12			1.10	.23	.16	.07	.13			1.04	.65	.08		.05			.16	
KUKUIULA 935	A	5.23			.03	.10	.104	.20	.20		.20	.12	.05	.02	.10			1.28	.28	.37	.06	.10			.72	.24	.07					.05	
LIHUE VARIETY ST 10621	A	3.77			.01	.02	.47	.05	.08		.06	.04	.03	.04	.07			1.01	.11	.11	.03	.12			.92	.24	.18					.18	
LIHUE WSO AP 1020.1	A	2.81			.03	.14	.26	.08			.03	.03		.08	.03	.14			.62	.07	.09	.01	.09			.34	.19	.03	.13	.05		.01	
MAHALEPU 941.1	A	4.37			.01	.07	.17	.14	.14		.28	.12		.03	.15			1.09	.20	.24	.02	.17				.52	.72	.08				.12	
MAKALEI 965	A	.75			.01			.01			.05	.01		.01				.19	.02	.01					.04	.15	.16					.01	
MANA 1026	A	9.73			.08	.03												.14	.03	.01													
MOHIKI UPR CROSS 1083	A	3.19				.24			.62	.09	.26	.26	.18	.26	.44	.35		1.76	.26	.97	.18	.09			.35	.94	.70	1.06		.09	.09		
MOUNT MAHALEALE 1047	R																	.77	.53			.23											
NIU RIDGE 1035	A	.61			.07													.19	.06	.04					.25	.99	.55	.16	.34			.35	
N. WAILUA DITCH 1051	A	29.08			.10	.60	1.67	1.29	1.92					1.08	.82	.75			4.57	5.23	3.24	.98	.28			2.89						17.20	
N. WAILUA RIVER 1055	A	17.20				.13	1.65	2.82	1.12		1.32	.75	.54	.06	.33			5.53	1.10	1.51	.04	.13			2.49	1.66	.80	.12	.38	.03		.19	
PH. WAINIHA 1115	A	22.75			.05	.15	.95	.21	.95		.43	.19	.44		.02			2.78	1.63	.80	.06	.17			.55	.49	.13	.04	.19			.22	
PRINCEVILLE RANCH 1117	A	10.45			.05																												
PUEHU RIDGE 1040	A	.62				.08	.56	.26	.31		.11	.09	.09	.04	.09			.11	.14	.14	.07	.12			1.13	.44	.26		.02			.28	
PUNI 1013	A	5.59			.05	.10	.26	.18	.13		.11	.05	.17	.09	.08			1.49	.02	3.64	.15	.10										.01	
WAILUA 930	A	15.42			.02	.09	.71	1.14	.74	.32	.25			.39	.65	.49		1.02	2.49	1.08	1.34	.46	.24		.28	.87	.38	1.04	.18	.15		.04	
WAILUA LOWER 1054	A	20.91	.04	.02		.14	.17	.89	1.50	.25	.28			.61	.72	.66		1.52	1.49	3.85	2.28	.47	.22		10	.87	.91	1.31	.31	.19		.06	
WAILUA UPPER 1052	A	20.91	.01	.03																													
WAILUA 943	A	.24			.02													.16	.01	.03													
WAILUA KAI 1065	A	3.23			.04	.41	.23	.13			.11	.10	.03	.02	.10			1.03	.10	.05	.04				.71	.09	.04						
WAIPIA 947	A	.33																.21	.01	.02					.04	.05							
WEST LAMAI 931	A	6.20			.02	.23	.58	.34			.27	.11	.14	.23	.16			1.26	.24	.16	.03	.17			1.02	.77	.23	.02	.04			.18	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAMA	A	4.52			.04	.02			.22	.04	.07			.01				.60	.02	1.60	.02				.65	.47		.07	.34			.35	
BERETANIA PUMPING STA	A	9.42			.13	.03			.28	.19	.05			.01	.10			.52	.05	.19		.01			.01	.65	.46	.69					.05
B. T. U. LAIE 903.1	A	1.60			.10	.15	.19				.01	.10			.06	.18		1.35	2.00	.02	3.64	.15	.10		.20	.15	.05						
CAMPBELL IND. PK 702.5	A	2.31																.45	.04	.97						.02	.05						
COCONUT ISLAND 840.1	A	2.31			.04	.05	.03	.06			.02	.1	.07	.01	.18			.45	.04	1.08	.02	.08				.10	.02	.01	.07			.02	
EWA PLANTATION 741	A	2.01																.49	.02	1.15	.02					.23	.02						
HONOLULU OBSERV 702	A	2.53				.02					.01							.02	.32	.03	1.70	.1				.05	.26						
HONOLULU WSP. AP 703	R	3.04																.53	1.19	.01	.1				.03	.85	.05					.01	
KAENA POINT 841.3	A	50.56			.02	.418					.01	.01			.02	.03		.02	.04	.02					.01	.24	.75					2.57	
KAHANA 883	A	50.56			.02	.418					.01	.01			.02	.03		.02	.04	.02					.01	.24	.75					2.57	
KALIHI RES SITE 777	R		.02		.06	.08	1.04	.04	.02	.06	.22	.86		.24	.72	.42		2.08	4.26							.42	.16	1.00				.02	
KANEHE MAUKA 781	A	11.17	.01		.01	.02	.14	.33	.01		.10	.05	.22		.06	.18		.16	.09	.41	.68	.03	.11		.28	.22	.04		.37	.05	.01	.09	
KAPALAMA 773	A	15.14			.05	.02	.13	.23	.54		.60	.67	.32	.45	.55			.16	.60	2.77	.02	.05			.20	1.00		.71	.50			.28	
KAWAHAPA 841	A	8.86</																															

HAWAII AND PACIFIC
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STATION

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DAILY PRECIPITATION

HAWAII AND PACIFIC
MARCH 1980

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ORCHID LAND EST 91 5	A	38 25						1 86							6 70							20 50								9 19				
PAAUHAU 217		36 67	1 18	04		29	52 1 36	1 43	03	63		67	51	01	1 50	2 08	39	1 05	5 43	3 60		30	85	36	61	1 13	5 48	1 87	1 26	38	1 15	1 72	1 14	0 2
PAUHILO 221		62 78	2 78	02		61	39 3 89	3 70	06	85		1 47	71	10	1 61	3 81	1 41	1 78	4 90	8 84		1 05	80	55	70	1 12	8 48	1 48	2 67	2 38	1 15	1 72	1 14	6 1
PAHALA 21	A	28 93						50										61	4 67	15 00		4 27	20			1 90	1 13	46	15	04			1 25	
PAHOA 65	A	43 89			98	21	31 70	37				1 05	75	32	86	3 22			14 35	1 80		2 65	4 58	65		3 11	4 12	1 25	45	81			1 25	
PAPAIIKOU 144 1		67 54						40				96	1 25	51	1 65	5 10			15 80	14 70		8 42	1 16	R1			4 00	4 00	51	97	96		1 85	
PAPAIIKOU MAUKA 140 1	A	94 01			4 17						6 22								28 70	18 10		9 45	1 96			10 10						15 31		
PIIHOHUA 89	A	1 67	01															02	88	01		01	69						03					
PUUKOHOLA HEIAU 98 1	A	4 70																															4 70	
PUU LEHUA 73	A	4 39	03	33	T			05				08					03	T	75	85		2 05	02			1	04							
PAAUHAU 2 31		13 80	03	14							14								05	2 80	9 02		02	22	02		19	72						
UPOLU POINT USCG 159 2		16 51	1 50			T	1 33	05		15	12	35		45	14	20		52	89	07		22	4 30		86	46	10		09	62	2 87			
WAIKAEA SCD 88 2		90 07	2 79	03	T														2 68	10 32	18 48		7 09	2 60	1 22		1 00	1 81	7 15					
WAIKALOA-BOIS CAS 95 8		2 04																																

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DAILY PRECIPITATION

HAWAII AND PACIFIC
MARCH 1980

STATION	TIME	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
AKA-KAHI		13.95	26	22	32	15	01	61	91	34	01	01	36	23	12	32	12	01	22	28	10	12	T	04	34	31	2.96	3.10	.96	46	26	.41	.39
AFONO		15.04	33	19	17	21	T	22	3.01	T	08	02	10	27	38	30	40	08	19	1.59	12	40	T	19	49	51	.97	1.95	1.46	24	1.00	.05	.21
FALEASAO VILLAGE		16.76	19	06		12	24	48	1.31	1.08	17	91	25	04	T	06	84	T	06	84	65	18	56	1.06	75	1.86	1.18	75	1.29	.95	.08	.86	1.83
JOHNSTON IS WSO AP	R	84		T	29	T	T		17	03	T	02	13	T	T	01		04	T	T	T	T	T	T	T	T	.02	T	.10	.32	T	T	.03
MIDWAY SAND ISLAND		81	05						30	02	T							09	01	T	T	T	T	T	T	T							
MALAE, OA		18.17	01	21	22	17	03	55	1.75	.08	T	12	1.20	14	19	.06	T	1.44	.32	10	2.25	28	T	.50	.33	.08	3.18	2.12	.78	.76	.55	10	.41
PAGO PAGO WSO AP	R	14.84	04	33	07	61	.9	2.39	60	04	20	49	61	08	09	43	02				.32		.14	.17	.25	.53	3.38	1.18	.51	.44	.07	.19	1.30
WESTERN PACIFIC ISL. NORTH OF 12° N																																	
AGAT		1.66				17	26								10			01			.25	20								.39	.29		
ANDERSEN AFB GUAM		2.03			23	38	19		02	T	12	T	19	01	29		01		T		.02		13	03	T		.24			.03	.09	.09	.14
CLARK AFB LUZON		4.32									1.47		35					05	T							.27	.71	.24	T	T	1.57		
DEDEO		4.61			60	60	73						66	10	26			60			.14					.27		.03	T	T			
GUAM NAS		2.74			14	51	06	T	15	T	07	T	03	T	05	T	T	01		.06	.46		30	.02	.02		.13	T	T	T	.21	.25	.27
GUAM WSO	R	3.42			41	62	13		25	T	19	02	08	05	23			10	.03	.05	14	T	.33	.01	.02		.10	.01	.02	.05	.14	.27	.17
INARAJAN AG STN		6.39		17		10	27	30	90			.12	10		12			.23	.25	.45	.18	.90			.21	.75		.16	.28		.30	.41	.52
INARAJAN - NASA		3.59	48	01	03	58	29	04							63			.23	.03	.02	12	17	T	.13	.21	.05	.02	.03		.04	.35	.16	T
MANGILAO		2.85	13		01	29	48				07	04			.04	.02	.01	.15	.02	.02	.07	10	40	.17	.03	.02		.15		.22	.11	.10	
SAIPAN LORAN																																	
UNATAC																																	
WAKE ISLAND WSO AP	R	1.11	01	02		T			02	01		T			T		44		.07	.03	T	.01								T	T	.36	.04
YIGO		6.29	71			1	15	30	19	15		20	30				26		.70	.10	20	.17		.19		.02	.08		.80		.45	.20	.20
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL																																	
KAPINGAMARANGI ATOLL																																	
KOROR WSO	R	5.53	06	01	29	03	02	67	01	14		12	64	11	88		04				70	55	12	09		20				T	16		
KWAJALEIN MISSILE RGN	R	1.20	T	T		09	T			07	09	03		T	T			01		56	70	02	06	T	T		T	T	T		.64	.17	.02
LELE I KOSRAE																																	.01
MAJURO WSO AP	R	5.05	05	02	16	11	01	16	07	11	40	31	62	13			04	.22	.41		T		.68	.27	.03	.01		T			.04	.69	.51
METALANIM		7.30	.15	.79	.10	26				.08		48	06	1.03	24	41	56	.47	.05	.68		.02	.20	.05	.15						.11	1.22	.13
PONAPE WSO	R	8.11	.31	.78	.24	.02	.06	T	T	.02		39	35	06	96	1.95	.94	81	.09	.09		.05	.08	.27	.05	T		.01			.01	.16	.41
SATANAN ATOLL	R	8.14			03	06		T	11	18		13	3.63	T			60	1.73	.49	.52	T	.01	T	T	.22	.01		.32	.01				.03
TRUK MOEN I WSO AP																																	
WOLEAI ATOLL																																	
YAP WSO AP	R	6.42		03					T	01		18	39	11	01	02	T		.02	2.13	99	1.09	.04	.09	20	.06		.03		.03	.04	.37	.38

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STATION		DAY OF MONTH																															AVERAGE
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HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	69 41	62 36	63 56	67 52	65 54	67 54	62 54	65 53	62 51	65 51	66 53	66 54	61 53	63 52	62 57	62 55	68 56	70 58	69 57	69 54	68 54	64 53	63 55	65 53	65 55	68 54	68 50	66 52	68 52	70 49	70 48	65.7 52.5
KILAUEA POINT 1133	MAX MIN	72 66	77 67	79 66	77 67	77 66	76 68	74 68	78 68	78 68	75 65	77 68	74 68	69 68	78 69	79 67	78 64	74 69	78 69	76 69	76 69	79 69	79 68	75 67	77 68	77 68	79 68	80 69	79 68	77 67	79 69	77.2 67.8	
LIHUE WSO AP 1020.1	MAX MIN	77 67	77 66	78 65	76 65	77 67	76 69	79 70	79 69	77 68	78 68	79 69	79 69	66 66	66 68	68 71	72 68	76 71	79 71	78 70	78 69	79 69	80 68	76 68	78 69	77 68	79 69	79 70	80 71	78 70	79 68	80 68	77.8 68.3
NIU RIDGE 1035	MAX MIN	78 59	77 58	79 57	79 57	78 61	78 59	81 61	82 58	79 56	82 56	82 61	81 59	81 60	83 58	84 56	83 64	83 62	82 64	85 62	82 60	86 62	86 63	85 61	84 63	82 60	83 60	83 60	84 60	85 58	85 58	82.1 59.6	
WAIHAI LOWER 1054	MAX MIN	73 60	77 56	78 54	74 63	75 64	73 64	72 65	77 64	74 65	76 64	75 64	76 63	75 65	72 61	74 63	75 66	74 66	73 64	78 64	73 64	76 66	77 65	71 66	76 65	75 66	77 65	76 65	71 64	75 62	78 68	74.9 63.7	
WAIIMEA 947	MAX MIN	81 63	80 61	81 64	80 64	82 69	82 60	84 59	85 61	82 60	84 58			86 64	81 63	84 66	85 60	75 70	78 70	83 68	87 60									89 60	85 63	87 65	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	77 67		79 61	78 69	78 69	77 70	78 70			79 68	79 69	80 70	80 70			81 69	78 71	82 69	80 70	79 71			81 69	77 69		79 69	81 68			80 70	79.2 69.0	
B Y U LAIE 903.1	MAX MIN	75 69	77 69	77 68	75 67	75 69	73 69	76 68	77 67	75 67	76 67	75 66	76 64	78 69	77 65	78 64	78 63	73 67	78 70	75 62	76 70	76 64	77 63	77 72	73 64	75 71	76 70	77 71	77 74	78 69	78 70	76.2 67.7	
HONOLULU OBSERV 702.2	MAX MIN	78 62	81 57	81 59	81 63	81 67	81 69	82 69	82 68	82 68	82 68	89 65	89 69	84 68	84 65	83 65	85 69	81 68	82 67	81 66	82 66	82 67	83 69	83 67	80 66	80 68	81 70	82 63	83 66	84 69	83 68	82.2 66.5	
HONOLULU WSO AP 703	MAX MIN	79 68	81 61	80 69	81 68	79 65	81 66	81 71	81 69	81 69	82 68	82 69	83 70	81 70	81 69	83 71	79 70	82 71	81 69	80 70	81 71	81 70	78 70	78 70	79 69	80 70	82 69	80 69	81 69	82 70	82 70	80.7 69.3	
KANEHE MAUKA 781	MAX MIN	72 69	79 65	79 68	78 71	78 70	76 68	74 71	79 71	80 71	80 71	80 71	79 71	78 70	77 66	77 72	75 69	75 71	78 68	80 71	78 71	79 71	80 72	78 71	75 71	78 71	75 71	78 71	82 71	81 70	79 74	78 73	78.0 70.4
KII-KAHUKU 911	MAX MIN					76 71	76 71	77 69	78 68	78 67	78 67	78 67	77 68	80 68	77 66	78 66	76 66	75 69	80 68	78 67	78 67	79 67	78 67	77 67	76 67	78 67	79 68	79 68	79 68	80 70	80 70	79 70	77.9 68.2
MANOA LYON ARBORETUM	MAX MIN	73 64	75 64	78 66	75 65	76 65	71 66	72 65	72 66	72 65	75 65	72 65	73 65	75 65	73 64	73 66	71 66	78 66	77 67	72 66	76 66	72 67	76 66	70 65	71 65	70 65	72 65	74 65	74 66	74 66	73.7 65.8		
OPAELUA 870	MAX MIN	74 64	73 64	74 65	75 63	72 65	72 65	72 65	73 65	74 66	75 65	75 66	75 66	75 64	76 64	72 66	70 66	70 67	80 67	79 66	75 66	75 66	75 65	73 65	75 65	75 65	75 65	75 65	75 65	76 65	78 67	74.5 65.2	
PUU MANAWAHUA 725.6	MAX MIN	74 58	74 60	72 61	73 61	71 62	74 63	74 61	72 61	73 60	73 62	73 62	73 62	75 60	72 62	73 62	69 62	74 62	73 62	73 63	75 63	74 63	73 63	74 63	68 63	69 63	69 62	70 62	74 62	74 62	74 62	74 63	72.8 61.8
WAIALUA 847	MAX MIN	70 62	78 64	80 62	78 64	83 62	73 62	77 64	78 62	76 64	81 64	82 64	80 64	81 64	76 58	76 67	74 66	81 67	81 66	81 62	78 62	78 66	79 66	77 66	79 65	81 65	81 65	78 62	77 62	78 60	78.5 63.2		
WAIKIKI 717.2	MAX MIN	80 64	81 66	83 66	83 68	82 68	82 68	82 69	84 69	83 68	82 68	82 68	83 68	84 68	82 67	81 68	85 69	79 69	83 71	84 68	83 69	84 70	84 71	83 70	80 69	78 69	81 69	83 69	84 70	85 71	84 71	85 71	82.5 69.2
WAIMANALO EXP FM 795.1	MAX MIN	73 67	76 66	77 67	79 67	78 68	76 68	75 70	78 68	77 68	77 67	78 69	78 69	79 69	76 67	78 67	76 68	74 68	78 69	78 69	79 70	77 70	77 68	77 67	75 68	76 69	77 70	79 70	79 70	79 70	79 70	77.2 68.4	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	76 65	74 66	81 60	80 66	80 66	79 67	81 61	80 66	75 67	79 68	79 67	81 64	86 68	78 66	78 63	80 66	75 67	80 68	83 68	84 68	80 64	80 62	80 64	84 66	76 68	77 63	80 62	82 66	80 64	81 63	82 63	79.7 65.2
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	76 63	76 59	78 62	76 59	78 63	77 64	77 64	79 65	77 63	77 63	78 62	79 62	76 63	75 63	75 63	79 65	74 63	80 63	80 65	78 65	79 64	78 64	78 64	72 65	77 63	78 63	78 64	78 64	79 61	78 60	77.4 63.1	
LANAI CITY 672	MAX MIN	68 64	70 61	75 58	73 59	71 61	72 62	74 62	74 63	71 63	72 61	72 59	73 59	74 61	71 61	69 64	73 64	70 61	78 63	79 62	77 62	72 62	74 64	71 65	70 62	69 62	73 62	76 59	76 64	73 65	74 63	77 59	72.9 61.8
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	58 39	63 40	65 41	63 46	64 44	60 42	58 42	62 42	52 38	56 41	62 42	61 42	58 45	53 45	55 45	55 44	55 44	59 49	60 48	59 45	56 41	58 41	56 41	51 42	49 42	52 45	55 39	52 40	52 40	55 42	63 41	57.3 42.5
HANA AIRPORT 355	MAX MIN	77 69	78 62	80 72	80 69	80 70	80 68	80 69	79 67	77 72	79 71	79 72	80 67	77 69	78 68	77 74	72 68	76 76	81 66	81 65	80 67	81 68	79 68	75 67	75 70	75 69	81 71	77 66	80 68	80 73	80 72	78.5 69.1	
KAANAPALI AP 453.1	MAX MIN	78 61	81 58	81 60	79 65	83 68	80 68	82 69	86 66	80 66	79 66	80 67	83 66	78 67	79 66	79 66	80 67	77 66	85 67	85 67	81 68	81 68	79 67	79 67	76 68	82 63	81 65	82 65	81 67	80 67	80 65	80.8 66.2	
KAHULUI WSO 398 AP	MAX MIN	79 71	82 62	81 70	82 71	81 71	82 72	82 73	81 70	81 69	82 70	84 71	81 72	80 70	81 69	80 70	78 71	79 69	83 70	85 70	83 70	83 71	81 72	75 71	76 69	83 68	81 68	82 68	86 70	82 69	81 68	81.2 70.0	
KAILUA 446	MAX MIN	71 62	73 64	76 62	74 66	75 67	73 64	74 62	74 62	72 65	74 64	74 66	73 64	72 62	72 64	71 66	72 66	70 69	74 72	74 72	74 66	75 63	73 65	75 63	75 65	74 64	74 63	74 63	74 63	75 64	73.4 63.7		
KEAWAKAPU BEACH 260.2	MAX MIN	85 63	83 57	83 59	85 59	86 60	86 62	86 64	88 60	86 62	8																						

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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KHANA HOSPITAL 267	MAX MIN	70 51	70 50	68 50	67 52	71 55	72 53	70 54	70 53	70 53	69 51	71 53	71 54	69 54	68 54	71 55	74 57	72 56	74 55	74 57	73 56	71 55	69 55	74 55	69 55	65 57	70 56	70 55	68 55	70 55	72 54	71 54	70.4 54.3	
KAHAINA 161	MAX MIN	84 64	83 61	84 63	85 61	84 62	86 63	86 63	85 66	85 67	85 68	85 63	82 63	82 65	85 66	87 67	83 69	85 68	82 69	85 67	85 63	87 63	85 69	83 70	80 68	80 68	86 66	84 63	86 65	86 67	87 65	86 64	84.5 65.4	
LAKE OF HAWAII																																		
HAWAII VOLCANO NP HQ 54	MAX MIN	66 55	68 48	70 49	69 52	68 52	65 56	70 52	60 51	60 52	60 51	62 53	66 51	60 53	60 55	62 51	67 55	63 55	62 52	65 55	59 54	64 52	64 54	64 55	61 54	56 55	58 54	59 56	64 51	62 51	60 50	62 51	63.1 52.7	
HI GWSG AP 87	MAX MIN	74 65	79 62	81 64	80 65	79 66	83 67	80 66	77 64	75 66	78 66	82 64	77 64	76 65	81 67	74 65	75 66	79 68	76 65	81 67	82 66	77 65	79 68	73 66	76 67	80 67	80 65	81 65	81 66	80 64	80 64	78.6 65.9		
KAINA 174	MAX MIN	80 61	79 61	77 60	77 59	79 61	79 61	79 64	81 61	77 61	79 61	80 62	79 62	80 62	78 64	78 62	80 64	75 64	80 64	82 66	77 63	77 62	78 59	79 63	77 64	70 62	78 64	78 62	79 61	78 61	77 60	78 70	78.2 62.4	
KAMOLELA 192.2	MAX MIN	68 60	68 55	69 55	67 58	69 60	69 60	70 58	69 56	66 58	69 57	68 60	70 59	68 60	66 63	67 64	69 63	68 64	74 61	72 63	69 60	69 60	68 59	67 60	61 58	61 60	61 60	67 59	70 59				67.8 59.4	
KAPAHU BEACH 41.1	MAX MIN	79 68	81 64	83 66	83 66	83 67	84 70	82 72	82 71	84 67	80 66	80 67	83 67	79 66	80 67	80 65	78 67	76 68	76 72	83 69	73 64	81 70	83 70	80 68	80 70	75 67	75 67	81 68	82 68	83 66	82 66	82 66	80.4 67.6	
KONA KAILUA AIR	MAX MIN																																	
KULANI CAMP 79	MAX MIN	60 52	62 47	64 47	60 48	61 46	62 48	62 50	62 48	55 47	54 46	55 47	61 45	58 46	56 50	56 49	63 47	59 52	74 54	66 51	56 49	58 48	61 58	60 50	57 48	55 50	52 51	56 49	59 48	56 47	56 48	57 45	59.1 48.8	
MAUNA KEA OBS 111.2	MAX MIN	42 20	43 25	42 26	44 24	42 25	42 22	38 23	38 24	37 24	42 23	41 25	38 22	36 23	32 23	36 24			38 28	37 27	36 24	44 26	36 20											
MAUNA LOA SLOPE OBS	MAX MIN	50 34	49 34	50 33	50 33	51 33	48 33						52 37	53 35	42 36				47 39	44 37	50 34	50 31	48 31	42 35	38 33	42 35	44 35	43 32						
MOUNTAIN VIEW 91	MAX MIN			76 57	70 59	75 60	70 61	72 63	69 60	69 61	70 60	70 60	75 60	72 59	67 61	69 60	74 61	73 60	69 64	72 64	65 59	72 62	74 62	69 64	74 62	66 61	67 60	69 61	70 58	72 66	72 58	72 58	70.8 60.7	
NAALEHU 14	MAX MIN	77 68	79 60	78 57	79 61	79 63	79 66	80 66	78 68	78 68	78 65	77 67	79 66	77 67	80 69	80 70	79 69	72 68	75 70	74 64	78 68	78 66	78 66	78 67	69 69	78 66	78 63	69 63	72 63	75 63	77 63	78 65	77 60	77.2 65.2
OOKAIA 223	MAX MIN	76 66	75 65	76 65	73 65	77 65	72 66	74 65	76 65	73 64	76 61	76 64	80 65	75 66	72 65	71 64	73 69	77 60	71 67	79 67	76 63	75 65	75 69	75 70	78 65	71 65	74 64	74 64	77 64	78 69	76 64	75.0 65.4		
OPHIHALE 2 24.1	MAX MIN	80 60	80 60	75 57	80 56	81 56	80 59	70 62	80 57	79 57	81 59	80 60	79 60	79 61	78 61	79 61	75 63	78 63	80 65	75 61	78 60	78 57	78 61	74 62	69 60	78 60	81 60	81 60	79 57	78 56	81 56	81 57	78.2 59.5	
PUUKOHOLA HEIAU 98.1	MAX MIN	86 69	89 64	86 64	86 64	86 65	89 64	88 68	88 65	88 57	86 60	89 69	87 73	86 74	89 74	81 69	85 69	84 69	87 69	88 72	81 69	88 70	88 74	88 74	79 63	84 63	89 67	86 68	86 67	86 67	81 62	86.5 67.1		
SOUTH KONA 2 31	MAX MIN	75 53	76 51	77 51	74 51	77 58	75 62	76 59	76 58	74 58	74 60	73 58	75 60	69 60	69 60	76 62	75 62	66 62	68 61	75 64	67 59	70 61	75 58	73 60	69 59	64 60	68 60	72 60	70 57	67 56	70 55	72 53	72.1 58.4	
WPOLO POINT USCG 159.2	MAX MIN	82 72	78 66	79 70	78 67	73 66	78 67	79 66	79 67	79 64	79 62	78 65	80 67	79 65	76 66	79 66	79 66	81 66	84 67	78 64	78 62	78 62	80 68	78 66	78 65	73 61	76 66	79 68	79 66	78 66	79 67	79 66	78.5 66.1	

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PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	83 76	82 75	81 72	82 75	82 76	83 76	83 73	83 75	83 77	83 75	82 73	83 73	83 76	82 75	83 73	82 74	83 74	85 76	84 76	84 75	83 76	83 75	83 76	83 73	84 76	85 74	85 77	85 77	85 75	84 72	83.2 74.9	
MIDWAY SAND ISLAND	MAX MIN	69 61	68 59	69 63	72 67	74 67	73 68	70 66	69 63	73 63	74 67	76 67	75 67	74 66	76 67	73 66	75 68	74 64	71 63	75 66	72 64	73 64	73 64	75 65	76 68	77 69	77 69	76 69	75 64	71 63	68 61	69 60	73.0 65.0
PAGO PAGO WSO AP	MAX MIN	88 76	87 78	88 76	86 75	87 77	87 74	87 74	88 79	88 76	87 77	87 76	89 80	89 78	89 76	88 75	90 75	89 76	88 75	89 75	88 75	88 75	89 79	89 76	88 78	84 75	86 78	85 80	87 78	90 77	87 78	87 78	87.7 76.7
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	82 77	82 77	80 76	79 75	80 76	82 75	82 76	82 75	83 73	82 76	81 77	82 76	83 76	84 78	83 77	82 75	82 74	82 77	83 77	83 77	82 76	82 74	82 76	83 76	82 74	82 76	83 77	84 77	83 74	83 74	84 74	82.3 75.7
CLARK AFB LUZON	MAX MIN	91 73	90 73	93 73	90 70	90 72	90 70	91 72	91 72	93 73	91 75	90 71	88 73	90 73	91 70	84 70	90 72	91 70	91 72	90 72	90 70	91 72	90 73	86 73	86 73	87 75	86 73	84 73	86 75	88 75	86 73	80 72	89.1 72.4
GUAM NAS	MAX MIN	86 76	86 73	84 74	82 76	84 75	86 73	84 72	85 73	85 72	86 75	85 74	86 73	86 77	85 75	85 76	85 76	86 77	85 78	84 73	84 73	86 75	86 75	87 76	85 75	85 73	86 75	86 73	86 73	85 73	86 74	85 75	85.3 74.5
GUAM WSMO	MAX MIN	83 73	84 71	81 73	80 72	82 70	83 71	82 68	83 70	83 73	84 73	84 72	84 72	83 73	83 71	82 70	83 71	84 71	85 68	84 74	83 72	84 71	85 70	84 73	85 73	83 72	85 73	83 73	83 70	83 71	84 72	83.4 71.7	
INARAJAN - NASA	MAX MIN	87 76	87 77	86 75	86 74	87 76	85 74	85 78	85 72	85 72	86 73	86 76	84 77	86 72	86 77	85 78	85 71	85 70	85 76	86 72	86 77	85 73	85 70	86 73	86 74	87 73	86 74	86 77	86 73	87 75	86 76	87 77	85.7 74.5
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	84 72	80 72	83 73	84 72	82 73	82 72	83 73	83 73	84 73	85 74	84 74	84 74	83 71	85 74	81 71	84 72	81 73	80 72	85 72	83 72	84 73	86 76	85 75	86 75	86 75	86 75	85 75	86 75	84 72	80 70	83 71	83.6 73.0
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 74	89 74	87 75	89 75	89 76	88 74	88 75	87 74	89 74	88 74	87 73	87 74	87 74	88 74	90 74	89 74	88 73	88 73	86 77	87 77	87 77	86 76	89 75	89 75	89 73	89 73	88 74	88 75	88 75	90 76	88.2 74.5	
KWAJALEIN MISSILE RGN	MAX MIN	87 79	87 80	87 80	87 78	87 79	88 79	88 79	88 77	88 77	87 80	88 79	89 80	89 79	89 79	89 80	89 80	89 79	88 78	89 78	88 78	89 80	89 77	89 77	89 80	89 80	88 79	88 74	87 75	86 77	87 79	88.0 78.5	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	86 77	86 79	87 76	86 75	86 79	86 79	85 78	85 76	87 75	87 75	84 75	84 76	85 79	86 79	86 78	86 75	85 76	86 75	86 79	86 79	86 75	86 75	86 76	85 77	87 79	86 79	86 79	86 78	87 76	83 73	82 74	85.7 76.8
METALANIM	MAX MIN	88 69	87 70	87 71	86 71	86 76	85 71	87 74	87 76	88 73	87 71	89 72	84 71	85 71	85 71	84 70	86 69	86 72	87 69	85 75	87 75	86 71	86 75	86 74	86 76	87 74	86 76	87 72	86 72	87 69	87 74	89 71	86.5 72.0
PONAPE WSO	MAX MIN	90 73	89 75	89 78	88 78	89 79	88 78	89 78	90 79	90 79	87 77	89 77	84 75	88 75	88 74	82 75	88 78	89 77	88 79	89 79	89 75	89 74	88 76	88 80	89 80	89 80	89 80	90 78	90 79	90 75	90 74	88.4 77.1	
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	86 79	87 79	88 78	87 74	86 73	87 79	86 75	86 73	87 79	87 78	82 73	86 80	87 80	86 77	86 75	83 75	85 77	87 73	88 79	87 79	87 79	87 78	86 78	87 78	87 75	87 73	88 79	87 78	87 79	86 78	86.5 77.0	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	87 74	87 72	88 76	86 76	87 77	87 77	88 74	88 73	87 73	88 74	88 75	88 74	88 75	87 76	88 76	88 77	88 75	81 73	85 73	86 75	85 75	86 76	87 75	88 74	87 76	88 75	88 76	88 74	86 75	86 74	87 74	87.1 74.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
MARCH 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324.5	11N1																																	
	4 MAX MIN	-	-	70 62	69 63	71 65	70 65	71 66	-	-	72 65	72 66	73 68	71 66	68 65	-	-	70 65	69 66	69 67	72 65	70 64	-	-	72 68	65 63	-	67 62	68 62	-	-	-	-	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MARCH
1980

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO AP 1020.1	EVAP	.23	.26	.21	.25	.28	.16	.11	.34	.37	.30	.34	.17	.29	.17	.30	.20	.30	.19	.21	.12	.35	.28	.32	.23	.40	.35	.33	.30	.36	.25	.29	8.26
	WIND	172	134	177	215	227	277	258	148	294	312	316	256	224	267	224	189	374	296	249	218	235	259	267	349	343	357	281	287	288	266	180	7934
	MAX	73	78	80	80	74	74	72	77	77	76	76	77	79	77	77	76	77	71	81	74	80	81	80	80	80	74	80	81	80	76	80	77.4
	MIN	59	58	58	57	60	61	62	60	59	59	59	61	61	60	59	58	60	63	65	60	62	61	62	62	61	62	61	61	61	60	59	60.4
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.45	.15	.05	.17	.30	.34	.35	.40	.36	.39	.30	.30	.45	.30	.41	.32	.23	.60	.30	.30	.41	.39	.13	.20	.15	.32	.22	.15	.30	.30	9.44
	WIND	28	22	13	19	36	41	41	43	48	53	49	47	39	44	37	46	35	30	29	32	44	54	49	49	57	62	34	27	50	38	23	1219
	MAX	85	90	85	83	87	86	89	88	90	88	88	89	86	89	87	89	77	87	89	90	91	91	91	91	80	80	85	89	88	87	88	87.1
	MIN	63	59	59	61	63	64	64	64	64	63	65	64	63	64	64	64	66	67	68	64	64	65	66	65	65	65	65	64	63	64	65	64.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MARCH
1980

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
FAKAELE																																		
FAKAELE 190TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	14	30	22	42	35	30	25	09	29	30	45	40	25	25	22	27	31	31	25	31	39	28	47	70	33	28	23	46	38	26	33	9.99	
	WIND	177	197	177	172	198	206	205	219	230	173	195	223	208	159	203	156	139	144	125	124	179	196	194	207	185	165	106	205	181	171	173	5592	
FAKAELE 190TH MERIDIAN																																		
FAKAELE WSO AP	EVAP	23	04	23	25	27	-	35	34	30	33	51	31	29	18	26	25	23	27	11	21	10	22	18	17	-	13	06	40	10	19	-	7.148	
	WIND	93	95	73	48	95	67	84	111	125	98	62	86	100	67	59	39	37	50	26	36	18	72	52	113	105	77	110	49	37	60	52	2191	
	MAX	100	100	100	100	100	98	92	91	91	98	97	98	98	97	96	96	100	100	100	100	98	99	100	96	90	87	95	94	95	95	91	96	6
	MIN	71	71	71	72	70	70	69	74	72	72	72	72	71	70	74	77	70	70	70	71	75	77	70	73	70	75	72	73	73	74	70	71	6
WESTERN PACIFIC IS.																																		
WESTERN PACIFIC IS. NORTH OF 12°N																																		
FAKAELE WSO AP	EVAP	44	36	00	24	24	21	25	15	19	32	26	24	09	45	19	31	39	13	14	31	30	32	32	31	09	16	32	28	30	30	28	7.85	
	WIND	124	89	76	87	103	88	88	109	119	127	147	95	142	143	127	114	212	216	202	211	174	169	146	148	101	149	128	128	179	178	181	4325	
	MAX	87	89	81	81	86	86	83	86	86	81	81	88	86	85	86	83	84	84	86	86	83	87	86	88	85	86	85	86	83	83	85	84.9	
	MIN	69	67	69	69	69	67	67	66	67	68	68	67	70	69	67	68	67	68	70	69	69	69	68	69	69	65	67	68	67	67	68	68	1
CAROLINE AND MARSHALL ISLANDS																																		
YAP WSO AP	EVAP	24	18	24	35	21	26	27	27	16	22	26	19	20	23	34	30	19	00	47	19	14	08	26	22	21	16	27	29	27	21	20	6.96	
	WIND	87	44	61	90	57	104	97	88	54	78	91	68	102	106	111	106	105	76	117	151	163	138	119	84	91	63	86	99	111	96	91	3012	
	MAX	94	87	91	87	94	91	91	91	90	89	88	92	90	93	90	88	85	76	85	91	91	89	93	87	88	90	90	90	92	89	93	89.4	
	MIN	71	72	71	71	72	71	72	71	71	72	71	72	71	72	72	69	70	71	71	71	73	73	72	73	71	72	72	71	70	72	71	72	71.5

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STATION INDEX

HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180	7A			C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720	7A				MC BRYDE SUG CO LTD
EAST LAHAI 934	A 0456	02	KOLOA		21 55	159 30	440	7A				MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150	6A				MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253	7A				LIHUE PLANTATION CO LTD
HALENANAOH 1006	A 1038	02	LIHUE		21 58	159 26	490	8A				LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218	MO				U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800	8A				KEKAHA SUGAR CO LTD
ILIILUOLA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050	VAR				LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI		22 09	159 34	690	WI				MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830	7A				LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9	7A				LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9	8A			C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI		22 13	159 25	320	7A			C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALEI		22 14	159 24	180	7A				VALERIE BYRD
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36	7A				KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240	8A				MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640	7A				MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560	7A				PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100	6A				MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380	7A			C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207	7A				LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80	9A				MC BRYDE SUGAR CO
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140	7A				OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20	8A				KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500	MID				U S GEOLOGICAL SURVEY
MOLAAH 1145	A 6529	01	KAWAIHAU		22 11	159 20	330	8A				THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148	MID				U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110	7A				LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650	MO				LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALEI		22 12	159 34	101	6A			C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI		22 13	159 29	295	9A			C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1600	8A				KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329	8A				LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA		21 54	159 34	215	7A			C	MC BRYDE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE		22 01	159 28	780	6A				LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIMEA		21 59	159 43	10	8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50	7A				LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAHAI 931	A 9955	02	KOLOA		21 54	159 31	210	6A				MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSFO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C J	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	8A			HAWAII STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KII KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A			JEFF WALLACE
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240				C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAELUA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			BEN MAYES
WAIANA 836	A 9261	03	EWA		21 28	157 56	800		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM
WAIMEA 892	9593	05	WAIALUA		21 38	158 04	330				C	WAIALUA SUGAR CO INC
WAIPIHU 750	A 9738	03	EWA		21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	KALUA KOI GOLF COURSE
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620		7A		C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEAKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030		8A			HALEAKALA NAT PARK
HALIIMALE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61		8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8		8A	8A		AMFAC PROPERTIES INC
KAHAKULO MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700		7A	7A		E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20		8A	8A	C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004		7A	7A		KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45		7A	7A	C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3871	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A		C	K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		VAR			U S SOIL CONS SERVICE
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		VAR			U S SOIL CONS SERVICE
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		VAR			U S SOIL CONS SERVICE
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120				C	RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280				C	U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30	VAR			C	FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHU 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	A 5761	02	HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A		C	DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAW 217	7204	01	HAMAKUA		20 05	155 26	415		8A		C	DAVIES HAMAKUA SUGAR CO
PAAUILO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683				C	GEORGE SALAZAR
PAPAIIKOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	A 7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PILIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH

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ISLAND OF HAWAII												
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4 PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIAKEA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			
NEW STATIONS												
ISLAND OF KAUAI												
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
ISLAND OF OAHU												
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A			JEFF WALLACE

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PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			CLOSED 2/29/80
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			CLOSED 2/29/80
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE
CLOSED STATIONS CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			CLOSED 2/29/80
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			CLOSED 2/29/80
NEW STATIONS CAROLINE AND MARSHALL ISLANDS												
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- # Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

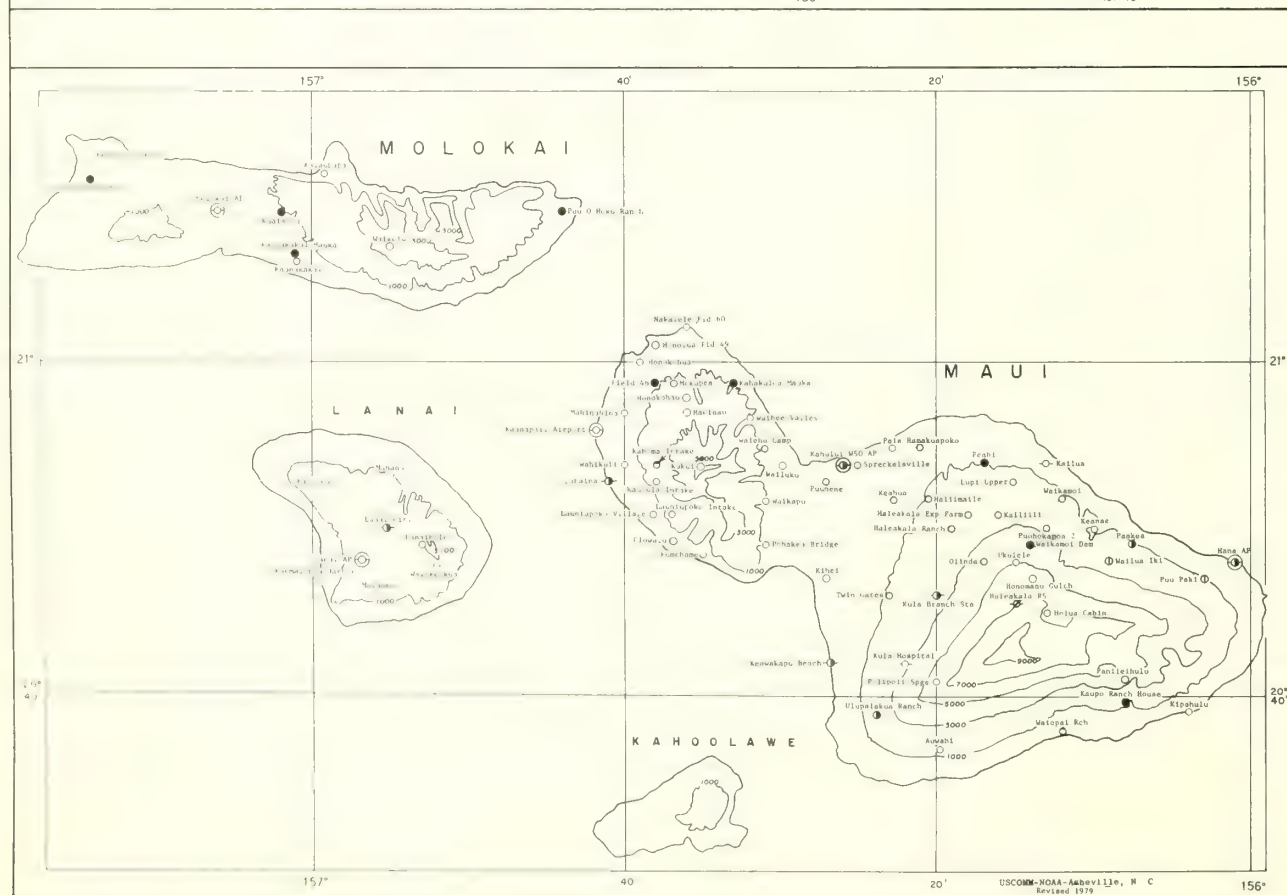
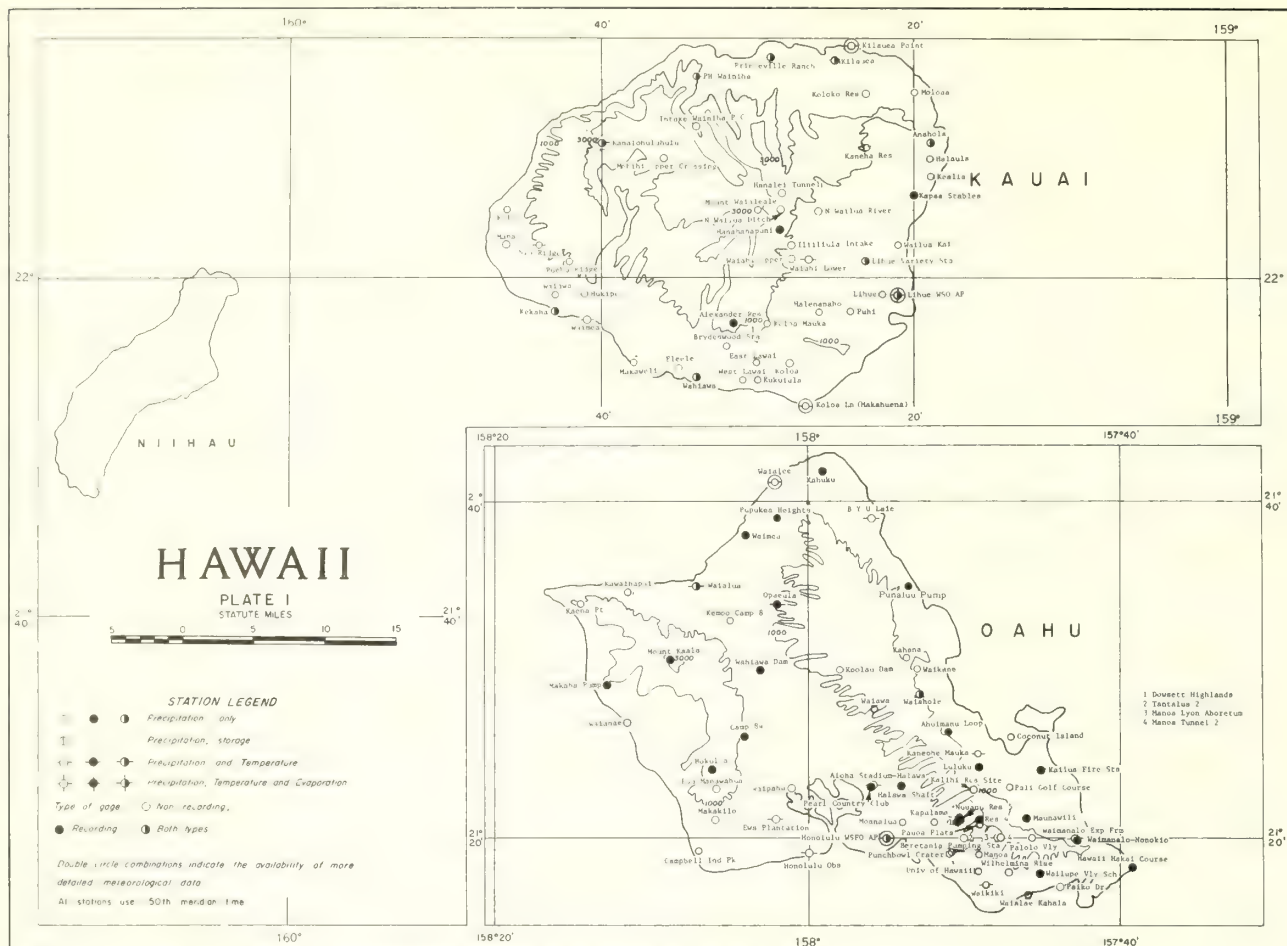
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

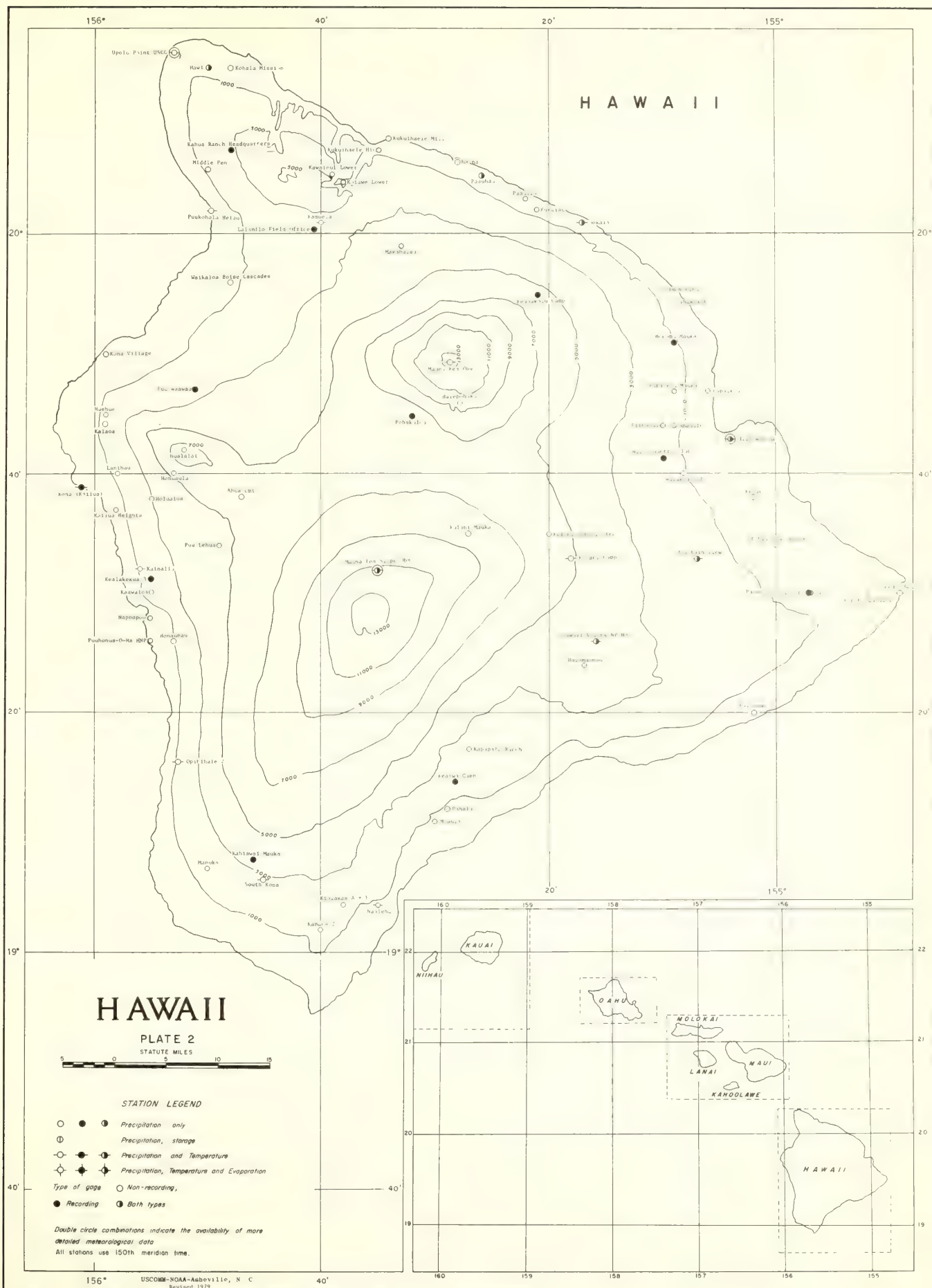
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

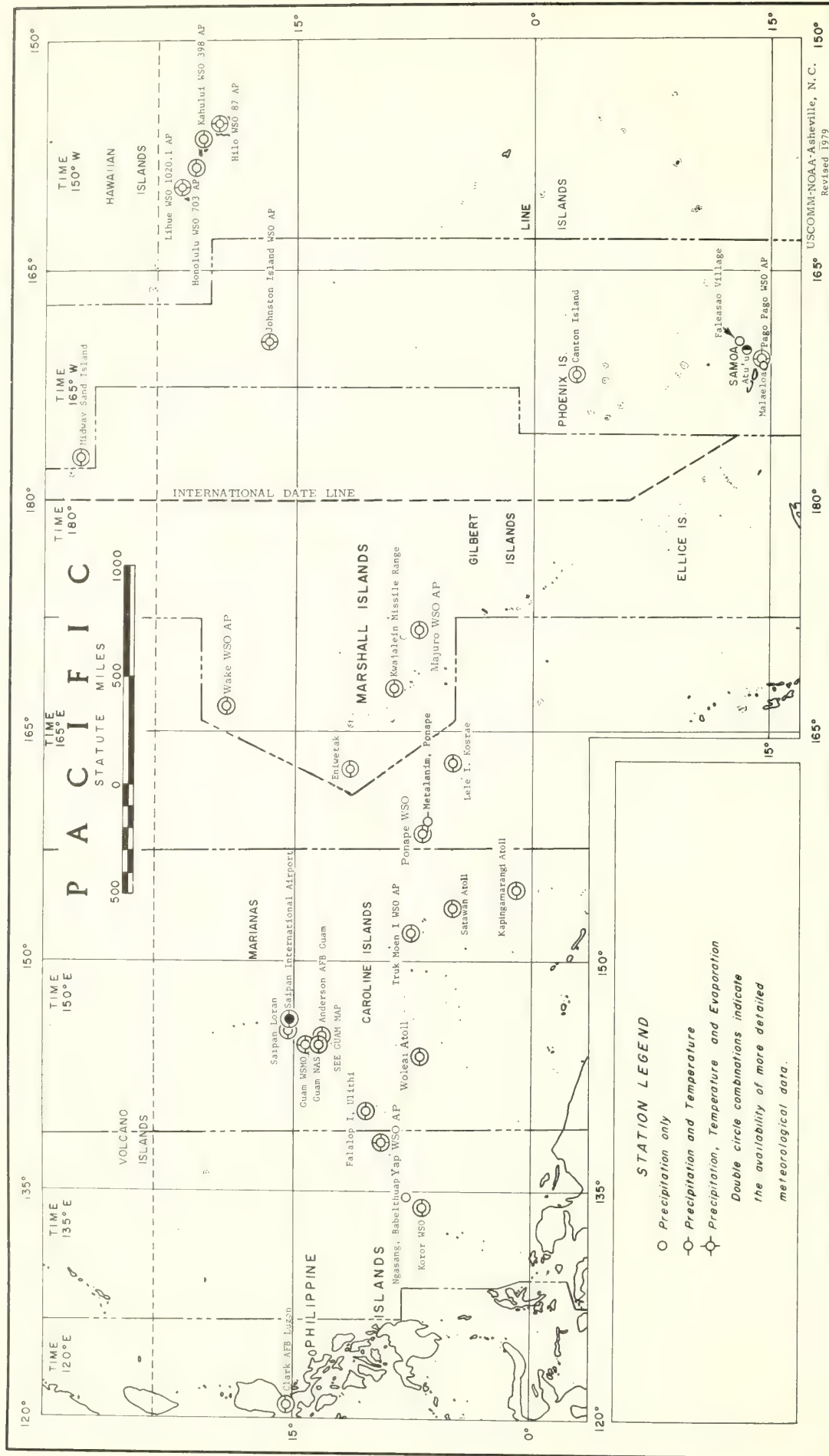
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

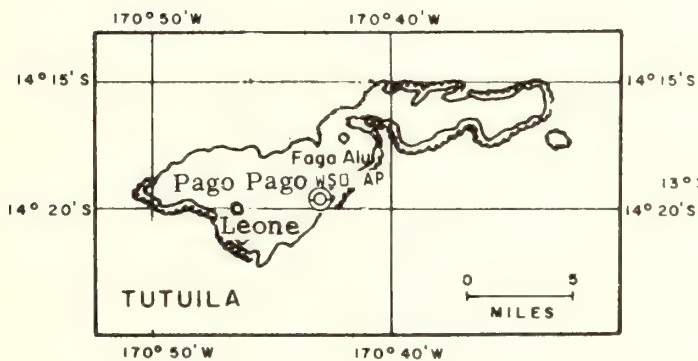
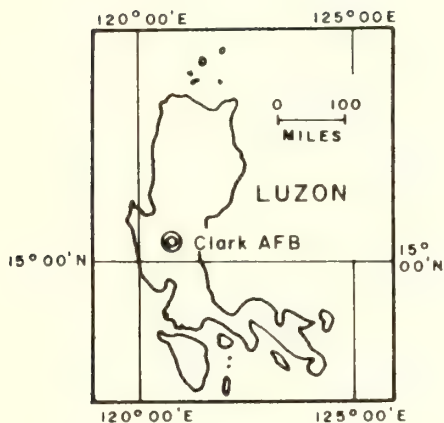
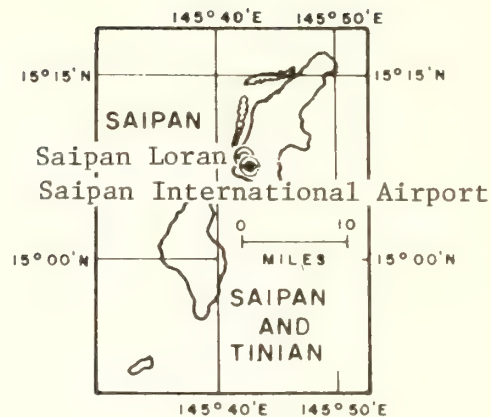
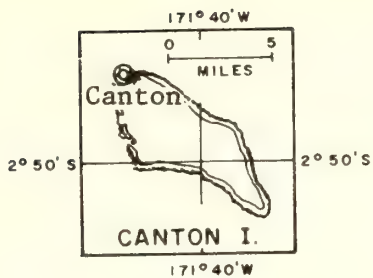
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
 Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
 ATTN: Publications

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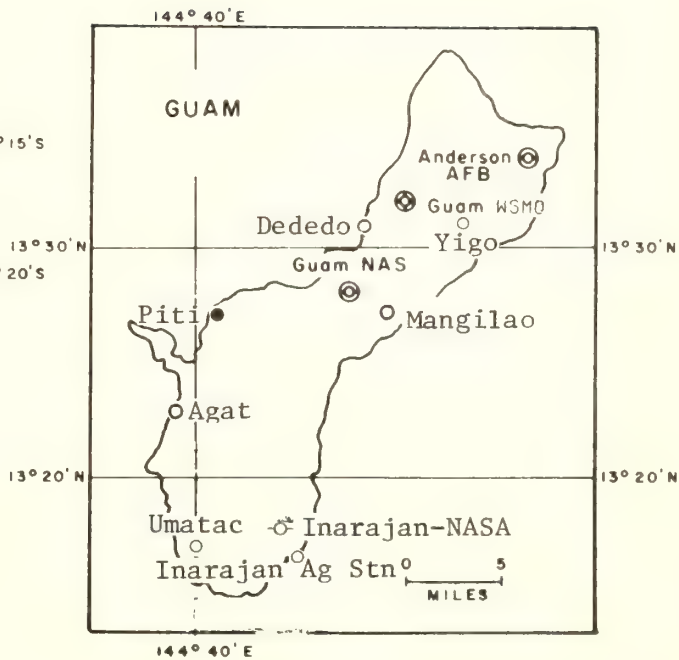


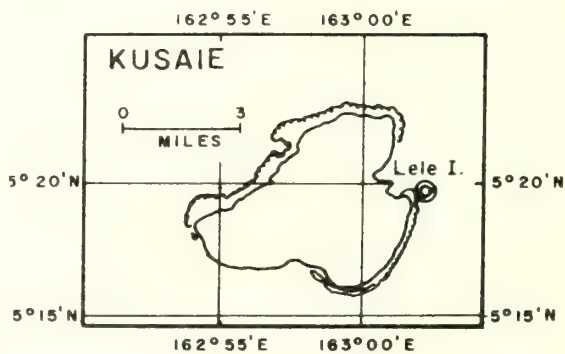
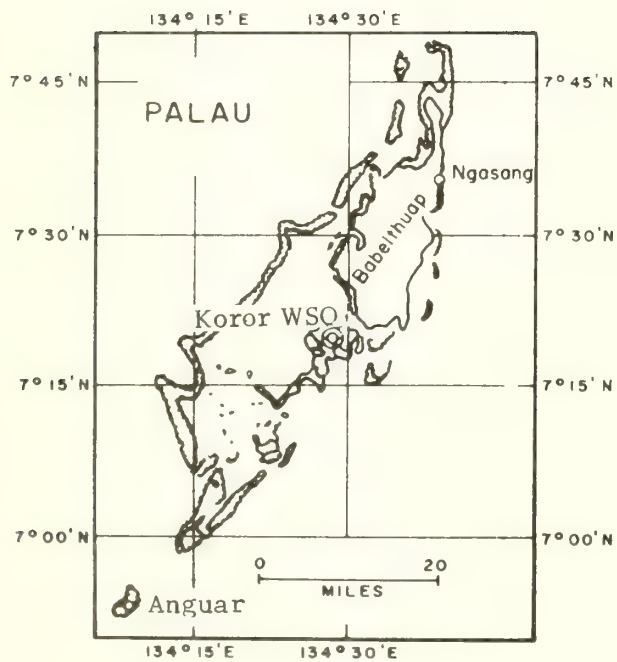
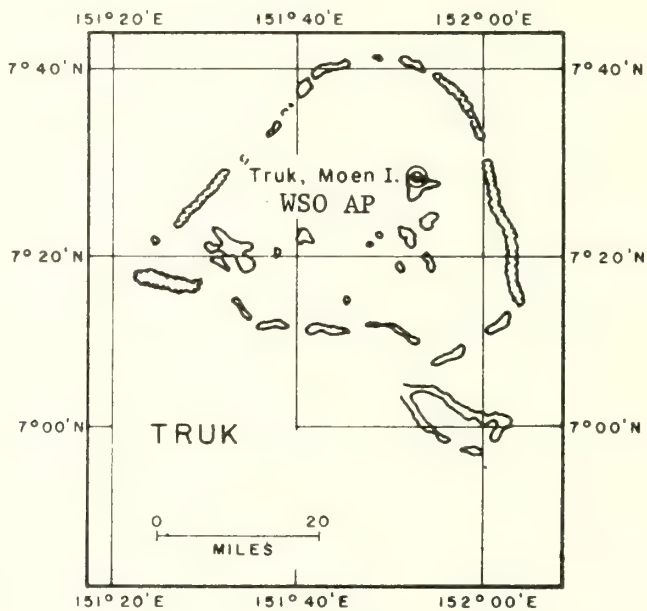
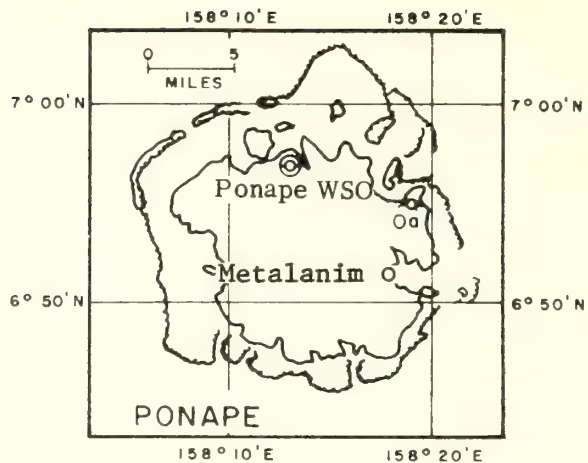
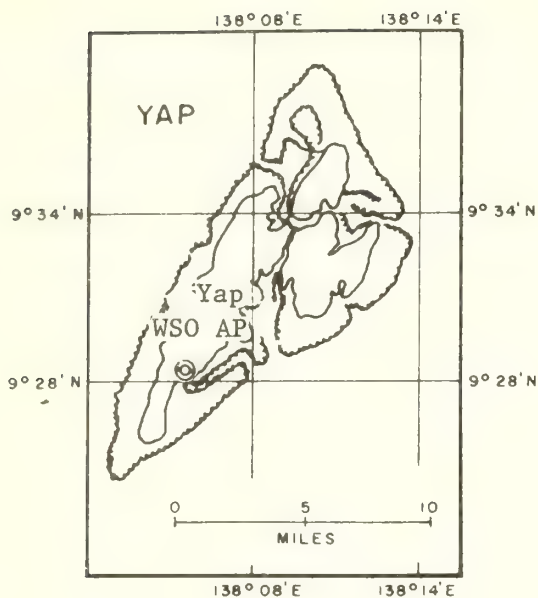




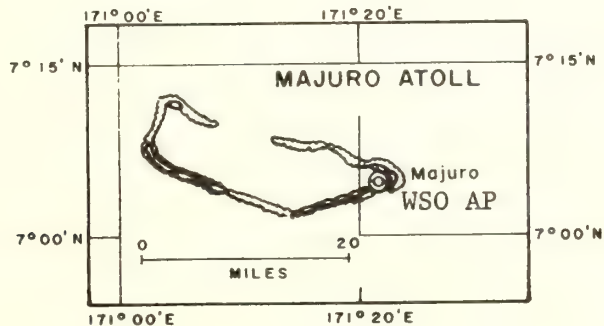
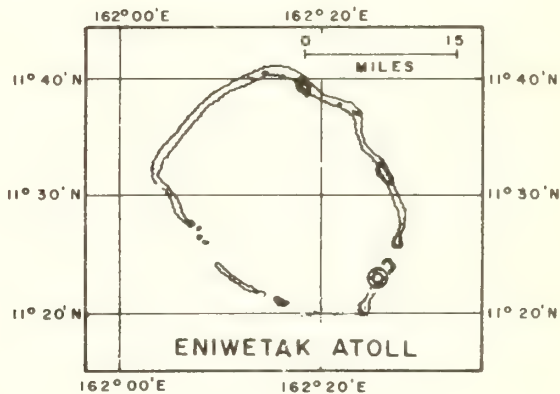
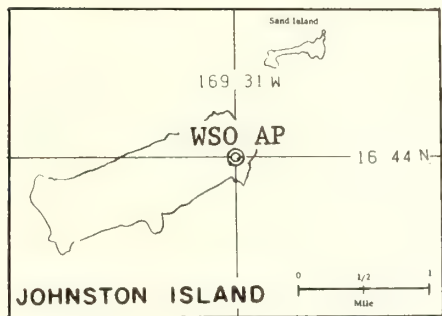
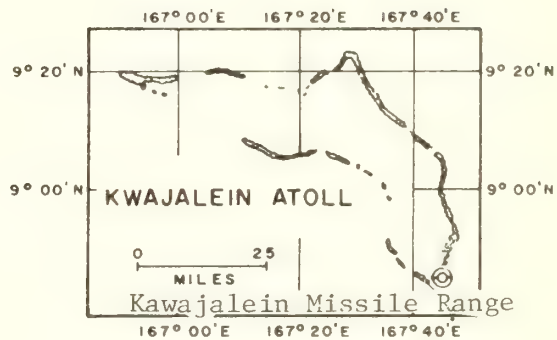
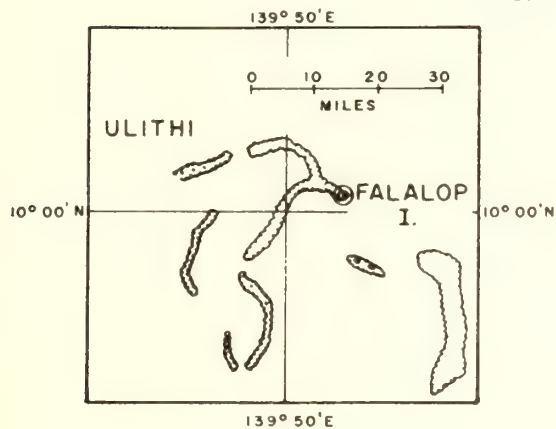
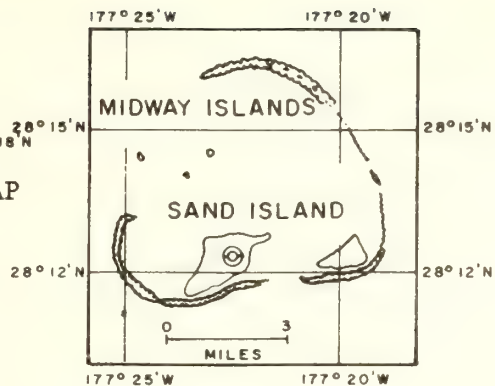
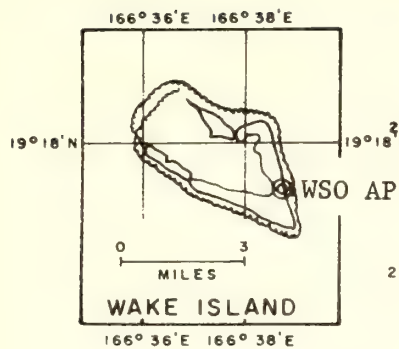


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— Reef



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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	95	DATE	05
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	31	DATE	25+
GREATEST TOTAL PRECIPITATION:	KAILIILI 436	MAUI	64.69		
LEAST TOTAL PRECIPITATION:	7 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KUKAIAU 222	HAWAII	8.45	DATE	13

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	26	NE	20	-	75	76	87	2	12	9	1	0	0	24	58	7.8	
HILO WSO 87 AP	6	0.9	4.8	15++	11	05	86	80	67	82	0	6	11	7	3	0	27	54	7.2	
HONOLULU WSO 703 AP	6	13.5	14.3	31++	6	12	77	73	60	76	7	10	4	0	0	0	21	72	6.3	
JOHNSTON WSO AP	8	17.7	18.4	35++	9	03	85	82	79	84	6	9	6	1	0	0	22	80	6.7	
KAHULUI WSO 398 AP	6	15.2	16.0	31	E	28	-	77	62	75	3	12	5	2	0	0	22	60	6.2	
KOROR WSO	6	6.0	7.9	20	NE	15	89	-	81	77	1	9	8	2	0	5	25	52	9.0	
KWAJALEIN MISSILE RGN	7	12.2	12.9	25++	8	15	84	87	76	80	6	5	13	2	1	1	28	-	8.8	
LIHUE WSO 1020.1 AP	5	15.1	15.6	23++	5	13	84	82	69	82	2	13	8	0	1	0	24	49	7.4	
MAJURO WSO AP	7	9.7	10.3	25	E	14	82	83	76	80	3	10	6	1	4	0	24	55	9.0	
PAGO PAGO WSO AP	9	5.0	10.7	34++	15	23	87	87	76	84	2	7	9	6	0	0	24	17	7.7	
PONAPE WSO	-	-	-	15	N	15	87	-	76	79	7	7	6	1	7	1	29	24	8.6	
TRUK, MOEN I, WSO AP	7	8.1	9.7	24	S	13	83	-	78	76	2	11	6	4	0	1	24	57	9.1	
WAKE ISLAND WSO AP	7	16.9	17.4	26++	7	11	77	76	67	72	6	11	6	1	0	0	24	72	4.8	
YAP WSO AP	7	9.1	9.5	22	NE	01	88	-	77	75	5	3	9	3	0	1	21	71	8.5	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
APRIL 1980

STATION	TEMPERATURE											PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.	32° OR BELOW	32° OR BELOW	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A	66.5	52.8	59.7		74	29	44	5		0	0	0	0	2.33		.45	3	.0	0		0	0	
KANALOHULU 1075		M	M	M		84	11				0	0	0	0	3.16		.57	22	.0	0		13	0	
KILAUEA POINT 1133											0	0	0	0	2.09		.35	2	.0	0		0	0	
KOLOA 936	A										8.69				8.69		1.56	17	.0	0		6	3	
LITHUE WSO AP 1020.1	//R	78.6	68.4	73.5	.2	81	28+	64	12		261	0	0	0	3.25	.00	1.10	16	.0	0		9	1	
MAHAULEPU 941.1															6.58		2.03	11	.0	0		1	1	
MANA 1026															.36	- 1.26	.17	10	.0	0		2	0	
N WAILUA DITCH 1051	A														15.01		2.86	2	.0	0				
PH WAINIHA 1115															20.60	- 8.02	4.04	2	.0	0				
PUEHU RIDGE 1040															.44	- 2.15	.19	14	.0	0		3	0	
WAHIAWA 930	A														1.65	- 1.03	.22	24+	.0	0		0	0	
WAIHI LOWER 1054		76.2	64.4	70.3		79	21+	60	12		169	0	0	0	12.40	- 3.08	2.58	17	.0	0		22	6	
WAIPIEA 947		84.9	66.1	75.5		87	26+	62	13+		324	0	0	0	.00	- 1.69	.00		.0	0		0	0	
ISLAND				69.8											5.89				.0					
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA		80.3M	69.5M	74.9M		84	11	66	7		303	0	0	0	2.84		.72	23	.0	0		12	1	
B Y U LAIE 903.1		76.0	69.1	72.6		80	12	64	15+		234	0	0	0	4.05		1.00	7	.0	0		6	0	
HONOLULU OBSERV 702.2		84.3	67.2	75.8		87	30+	62	8		332	0	0	0	.89		.24	23	.0	0		4	0	
HONOLULU WSO AP 703	R	82.4	69.7	76.1	1.3	85	29+	65	6		340	0	0	0	1.13		.36	22	.0	0		15	2	
KANEHE MAUKA 781		78.9	71.5	75.2	2.6	83	11	68	15+		310	0	0	0	6.75	-.49	1.91	16	.0	0				
KII-KAHUKU 911		79.3	68.8	74.1		81	30+	64	21		277	0	0	0	2.70		.35	22	.0	0		10	0	
KOOLAU DAM 833	A					82	11	63	13		171	0	0	0	24.20		3.80	24	.0	0		25	16	
MANOA LYON ARBORETUM		75.3	65.8	70.6		82	11	63	13		171	0	0	0	30.94		3.03	23	.0	0		24	19	
NUUANU RES 4 783											18.80				9.82		2.02	15	.0	0		22	14	
OPAULA 870	A	79.4	64.9	72.2	4.1	84	29+	62	14		220	0	0	0					.0	0				
PALO VALLEY 718	R														22.52	10.71	3.10	1	.0	0		23	18	
PUU MANAWAHUA 725.6		74.2	62.3	68.3		78	9	59	13		106	0	0	0	1.99		.48	21	.0	0		6	0	
WAIHOLE 837	A														12.56		2.19	16	.0	0				
WAILAUA 847	A	79.7	64.4	72.1	.6	85	10+	60	5+		211	0	0	0	2.06	-.26	.34	23	.0	0		10	0	
WAIKIKI 717.2		83.9M	69.4M	76.7M		86	30+	65	6		357	0	0	0	1.71		.37	22	.0	0		6	0	
WAIMANALO EXP FM 795.1		78.3	69.0	73.7		82	12	66	13		269	0	0	0	2.61		.48	2	.0	0		9	0	
WAIPIAHU 750															1.11		.31	22	.0	0		4	0	
ISLAND				73.5											8.55				.0					
ISLAND OF MOLOKAI																								
MOLOKAI AP 524		80.1	65.1	72.6		83	16+	57	16		234	0	0	0	2.29		.57	22	.0	0		8	2	
ISLAND				72.6											2.29				.0					
ISLAND OF LANAI																								
LANAI CITY 672	A	72.7	61.9	67.3	-.3	77	9	59	16+		80	0	0	0	2.15	- 1.14	.90	2	.0	0		2	0	
ISLAND				67.3											2.15				.0					
ISLAND OF MAUI																								
HALEAKALA EXP FARM 434	A	61.8	43.4	52.6	.4	71	29	35	10		0	0	0	0	25.15		6.11	2	.0	0		19	13	
HALEAKALA R S 338		80.0	70.4	75.2		83	9	66	11		311	0	0	0	10.94	6.91	5.73	2	.0	0		10	7	
HANA AIRPORT 355															9.22		2.48	2	.0	0		20	5	
HONOKOHUA 493	A	82.2	66.7	74.5		87	24	62	8		290	0	0	0	2.09		1.90	2	.0	0		5	1	
KAAHAPALI AP 453.1															9.25		.74	2	.0	0				
KAHULUI WSO 398 AP	R	82.6	69.2	75.9	2.1	87	9+	62	5		334	0	0	0	2.48	1.23	.72	1	.0	0		7	2	
KAILUA 446		75.0	64.1	69.6	.4	77	13+	59	9+		143	0	0	0	17.30	5.59	4.90	2	.0	0		19	10	
KEANAE 346															39.70				.0	0				
KIPAHULU 258															10.03	2.70	.72	27	.0	0		25	10	
KULA HOSPITAL 267		71.1	53.8	62.5	.4	74	26	51	29		0	0	0	0	3.93	.95	1.72	16	.0	0		3	3	
LAHAINA 361		86.1	65.5	75.8	2.5	89	24	64	17+		332	0	0	0	.44	- .49	.42	2	.0	0		1	0	
PAIA 406															4.80	2.08	1.39	2	.0	0		13	1	
WAILUKU 386	A														3.39	.98	1.38	2	.0	0		1	1	
ISLAND				69.4											10.67				.0					
ISLAND OF HAWAII																								
HAWAII VOLCONS NP HQ 54	R	69.5M	52.8M	61.2M	2.2	79	20	48	5		0	0	0	0	8.40	- 1.70			.0	0				
HILO WSO AP 87		82.0	66.9	74.5	2.3	85	25+	62	5		293	0	0	0	11.01	- 1.87	1.25	3	.0	0		21	10	
HUEHUE 92.1															3.02				.0	0				
KAINALU 73.2		78.3	62.1	70.2		83	3	60	27+		164	0	0	0	3.00	- 2.89	1.27	16	.0	0		6	3	
KAPOHO BEACH 93.11															4.17				.0	0				
KEAAU 92															14.50				.0	0				
KE-AHOLE PT																			.0	0				
KUKUIHAELE HIC 199															23.39	15.22	5.82	13	.0	0		19	9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
APRIL 1980

STATION	TEMPERATURE													PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.		MIN.							TOTAL	MAX DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE		
											40° OR ABOVE	32° OR BELOW	32° OR BELOW	32° OR BELOW	32° OR BELOW												
											40° OR ABOVE	32° OR BELOW	32° OR BELOW	32° OR BELOW	32° OR BELOW												
HAWAII																											
KULANI CAMP 79	63.3M	48.0M	55.7M				39	6		0	0	0	0	0	13.65		2.20	2	.0	0		1	0	0			
PAHALA 21															.51		.36	2	.0	0		0	0	0			
PUUKOHOLA HEIAU 98.1	88.5	68.8M	78.7M		95	5	64	8		422	9	0	0	0	0	.10		.09	1	.0	0		0	0	0		
SOUTH KONA 2.31	75.6	57.9	66.8		82	26	53	20		66	0	0	0	0	0	.44		.11	1	.0	0		0	0	0		
WAIKAE SCD 88.2															34.06		6.16	13	.0	0		23	17	11			
ISLAND			67.9												9.69				.0								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
APRIL 1980

STATION		TEMPERATURE														PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
												MAX.	MIN.	32° OR BELOW	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
PACIFIC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
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HAWAII AND PACIFIC
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DAILY PRECIPITATION

HAWAII AND PACIFIC
APRIL 1980

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ORCHID LAND EST 91.5	A	13.95					3.64					1.21						5.72									3.38						15	
PAUHAU 217		20.84	1.04	1.44	1.14	1.00	.12					1.26	2.92	5.54	2.24	1.45	.03				.01	.09			.68	.53	.77	.03	.35	.05			24	
PAUULO 221		32.36	1.66	3.20	2.90	.98	.08	.04				1.04	2.59	7.47	3.50	3.20	.48	.07			.13	.12	.73		.85	.60	1.10	.10	1.10	.18				
PAHALA 21	A	.51		.36	.01							.05				.05																		
PAHOA 65	A	13.43	1.35	1.45	.45				1.78	.06	.47	15	61			2.58	.90	15	10	.25				49	45	75	60	31			10	20	23	
PAPAIAKU 144.1		16.21	.30	1.05	.82				2.75	.01	.02	.04	.37			4.53	1.32	.08	.07	.05				.11	55	1.11	1.04	.42			43	16	98	
PAPAIAKU MAUKA 140.1	A	34.31		3.70					6.15							15.90								3.56							5.00			
PEIHOHUA 89	A																																	
PUUKOHOLA HEIAU 98.1		.10		.09																													.01	
PUU LEHUA 73	A	1.70																															1.70	
PUUOHONUA-O-HONAUHUA		3.16						.21																									.20	
S GLENWOOD														.14	.80	.75	.80																	
SOUTH KONA 2.31		.44							.05					.11	.02	.02	.10			.04												.03	.05	
UPOLO POINT USCG 159.2		4.81	.48	.61	.03	.19	1	.15	1				.04	.45	.82	.45	.49	.01		.04						.01	.41	.05	1	19	.03	.01	.07	.29
MAIAKEA SCD 88.2		34.06	1.21	3.56	1.78	2.75	.06	.54	.08		.01	.09	.90	1.41	6.16	4.82	2.31	.67	.28	.35														1.19
WAIKALOA-BOIS CAS 95.8		.39	.09		.07					.05																								.18

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
APRIL 1980

STATION	TOTAL	DAY OF MONTH																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
PACIFIC																																				
EAST OF 180TH MERIDIAN																																				
AASUFOU		11 65	2 15	44 1 17	60 11 10				T	10		.08	.03	65 16 46	.57 .22 .01	.02 37 .09	.12 1.06 .20	.01 .07 .90	.23 .24 1.49																	
AFONO		8 62	88	05 1 70	1 69 07 31			11		06	07	.01	.04	.27 .29 .34	.02 .30 .02	.08 .30 07	.06 .80 .36	.03 .04 .70	.01 .02 .23																	
FALEASAO VILLAGE		20 58	1 81	81 1 58	.05 06 31			01	07					1 46 54 1 09	.27 67 .36	T	1.01 2.14 .86	1.07 .38 1.54	.62 .81 2.15																	
JOHNSTON IS WSO AP	R	2 39	02	05 17	T			T			01	T	.05	T	.25 .10	.01 .40	T	.01 .65	.06 .48 T	T																
MIDWAY SAND ISLAND		09																T	.09																	
MALAELOA		9 55	1 75	87 56	66	38 .09		18		02		10	08	34 48 31	.58 .03 .22	T	T	.22	T	1.51 .03	T	.02 .79	.55 .11 .32													
PAGO PAGO WSO AP	R	6 52	62	37 70	12					07		T	64	09 37 .02	.14 .01	T	.08		T	.16 .63 .01	T	.30 .68	.70 .16													
WESTERN PACIFIC ISL. NORTH OF 12 N																																				
ACAT		1 14		11	15	20		T	08 2 12			04	.28		.04 T	T	.06 .02		.45 T	T	.23	.23	.32													
ANDERSEN AFB GUAM		4 26	16	T	T	04 14							.30		.04 T	T	.15 .02		T		.23	.11	.32													
CLARK AFB LUZON		17																																		
DEDEO		3 30	.35	32	10	15		T	.20		13		.13	.63 T		.30 18			.51 T	T																
GUAM NAS																																				
GUAM WSO	R	2 52	11 03 01	21	21			07 01 58	12 .19 21	10 31	35	07 .11 .04	.08 26 .02					.13 .03	T	.20	.03	.28														
INARAJAN AG STN		6 07		45	60	17 29 08		01	.44	32 .16 29	.22 .01	.02 15 .11	12 .13					.96 82 .59	.88	.03	.28															
INARAJAN - NASA		3 63																																		
MANGILAO		3 44	.01	52 T	.05 .29			T	.77	19 80		.05 .02	.08 .20					15 .15																		
SAIPAN LORAN																																				
UMATAO																																				
WAKE ISLAND WSO AP	R	2 02		12 65	T	08		.11 .02 T		01 07 24	.08	.04	.10 .05	.04 T	.05	.16 T	.02	.01 .17	T	.02	.01	.17														
YIGO		7 34		15		.40		.80	.82	20 07 33	.16 42 .20	.30 .37	.10 30	.05	.16 T	.02	.01 .17	T	.02	.01	.17															
CAROLINE AND MARSHALL ISLANDS																																				
FALALOP I. ULITHI ATOLL																																				
KAPINGMARANGI ATOLL																																				
KOROR WSO	R	18 80		04 2 21 07	5 23 20 22	21 09 10	14 02 05	T	02 09	68 2 02 .38	36 T	.15	.43 1.41 2.24	.07 3.77 .11	.50	.50 2.40	T	.15	.03																	
KWAJALEIN MISSILE RGN	R	6 55	T	T 33	T 01 03																															
LELE I. KOSRAE																																				
MALURO WSO AP	R	7 03	T	.01 25				.05 .01	T	07 03	10 1 33 05	.22 30 04	T	1.49 1.02	.29 03 10	.01 .58	.71	3.03 1.43 .18																		
METALANIM	R	20 71	1 61 1 34		.19 06			.01 T T	T	21 52	.52 04 21	3.08 07 30	.30 .95 2.11	3.32 .21 .58	.02 .03 1.07	1.22 T	T																			
PONAPE WSO	R	15 10	1.89 .28 T	.32 01																																
SATAWAN ATOLL																																				
TRUK MDEN I WSO AP	R	6 55	.09 .04 12	.05 .01 T				.03			.95 59 01 T		.01 .01	10 .75 .12	.22 .33	.83 .13 .04	2.03 .02 .02																			
WOLEAI ATOLL																																				
TAP WSO AP	R	7 72	.69 .36 3.06	T	.03 08			.34			.08 T		.44	.22 T																						

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DAILY TEMPERATURES

HAWAII AND PACIFIC
APRIL 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	68 52	65 55	64 54	70 59	68 44	68 46	69 49	73 50	67 51	70 49	63 56	61 53	56 52	59 50	61 51	65 54	67 56	65 55	73 53	70 51	63 53	64 53	68 55	68 56	69 58	64 53	67 57	72 53	74 52	65 54	66.5 52.8		
KILAUEA POINT 1133	MAX MIN	81 69	77 69	79 66				80 63	80 68	80 63	83 69	84 60		77 65	75 61	76 61						81 68	78 66	77 68	79 70	80 65			80 69	80 68	83 69			
LIHUE WSO AP 1020.1	MAX MIN	78 68	78 67	79 67	80 68	80 70	79 70	80 80	81 71	81 72	81 76	76 65	77 64	76 67	78 65	78 68	78 66	78 69	79 69	80 70	78 66	78 68	80 70	78 68	78 70	78 69	80 70	81 71	79 70	80 71		78.6 68.4		
NIU RIDGE 1035	MAX MIN	85 57	84 60	82 61	82 60	85 59	85 61	82 62	84 59	80 63	83 63	80 62	84 58	78 58	84 58	82 61	76 64	81 58	86 61	88 59	85 60	87 59	83 63	87 64	86 63	89 63	87 63	84 62	86 63	88 62	83 65	83.9 60.9		
WAIHI LOWER 1054	MAX MIN	78 67	74 66	74 66	76 65	76 62	77 63	78 64	75 64	79 67	77 68	75 65	75 60	74 62	75 65	76 64	72 65	76 65	78 65	79 63	79 65	77 62	74 65	74 65	74 65	78 65	75 62	76 64	78 67	78 66		76.2 64.4		
WAIPIA 947	MAX MIN	85 63	84 67	86 67	83 65	85 65	87 64	87 66	85 67	87 69	83 67	85 70	83 62	86 62	87 66	83 64	82 67	83 67	84 65	85 64	85 65	83 65	84 67	86 67	87 67	87 66	87 66	86 69	84 68	84 65	83 68	84.9 66.1		
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	80 72	79 70	80 77		79 69		83 66	81 67	83 69	83 70	84 70			81 67	77 68	78 70	80 69	80 71			80 69	77 69	75 69	81 71	80 70			82 70	81 70	83 72	80.3 69.5		
B Y U LAIE 903.1	MAX MIN	78 73	74 64	77 72	75 68	77 64	79 66	78 68	78 72	75 66	74 68	72 66	80 66	75 64	70 64	73 64	76 69	76 71	76 71	73 69	76 70	77 73	74 70	73 70	77 70	78 71	78 71	79 72	79 73	79 73		76.0 69.1		
HONOLULU OBSERV 702.2	MAX MIN	84 69	84 70	84 70	85 66	85 69	85 64	86 68	82 65	85 63	87 68	82 66	86 66	81 66	82 69	83 64	86 66	85 66	85 66	84 66	85 67	85 67	84 66	81 67	84 66	85 67	85 67	85 66	84 65	85 67	87 70	84.3 67.2		
HONOLULU WSO AP 703	MAX MIN	81 71	81 70	82 71	82 70	82 61	85 65	80 66	85 67	85 70	81 70	83 69	80 69	80 69	80 71	81 70	83 70	84 71	82 70	83 69	82 71	79 69	84 69	83 71	83 70	83 71	83 71	85 70	85 71	83 70	82.4 69.7			
KANEHE MAUKA 781	MAX MIN	78 72	74 69	79 71	81 71	81 75	77 72	80 72	79 75	82 74	82 73	83 73	81 69	77 70	74 68	74 68	80 72	79 72	79 71	80 70	77 70	77 71	78 69	75 71	80 71	79 69	78 73	80 71	81 71	80 72	81 74	78.9 71.5		
KII-KAHUKU 911	MAX MIN	79 68	78 67	78 67	80 68	79 69	80 70	78 68	79 69	80 70	78 68	80 70	79 69	79 68	79 70	80 71	80 70	80 70	79 69	79 68	81 69	78 69	80 70	79 69	80 70	79 69	80 70	79 69	80 70	81 70	79.3 68.8			
MANOA LYON ARBORETUM	MAX MIN	77 66	76 66	76 68	76 68	78 67	77 64	80 64	73 65	76 66	81 65	82 66	76 64	75 63	75 64	71 64	71 66	72 67	73 67	73 65	70 65	78 66	70 66	70 67	73 67	74 66	75 67	77 66	78 66	77 66	75.3 65.8			
OPAEULA 870	MAX MIN	78 65	79 67	78 68	76 64	77 63	78 64	80 65	80 65	79 65	80 66	80 66	72 64	69 63	82 62	82 63	84 65	82 65	84 64	73 65	75 67	82 64	82 65	84 65	82 65	75 66	76 65	76 66	84 65	84 67	79.4 64.9			
POU MANAWAHUA 725.6	MAX MIN	73 63	73 63	75 62	75 61	74 61	76 62	74 63	77 63	78 68	75 65	75 60	70 61	70 59	73 61	75 63	74 66	72 63	74 63	76 66	72 61	74 62	71 62	75 64	74 63	75 61	74 63	75 64	77 65	74 63	74.2 62.3			
WAILUA 847	MAX MIN	81 65	78 68	80 66	80 60	78 60	82 62	82 62	85 63	85 68	84 69	80 64	76 64	74 62	76 62	79 64	81 67	80 68	74 64	78 66	76 64	79 67	77 65	80 66	80 68	78 62	80 62	83 65	84 65		79.7 64.4			
WAIKIKI 717.2	MAX MIN	84 71	84 69	84 71	85 71	84 65	85 67	86 68	84 68	86 69	86 68	85 68	82 68	81 68	81 70	80 71	85 70	85 69	85 70	84 69	84 71	84 69	83 68	81 68	84 69	85 70	83 69	84 72	86 72		83.9 69.4			
WAIMANALO EXP FM 795.1	MAX MIN	79 70	77 68	78 68	80 70	80 69	79 69	79 70	80 71	80 71	81 68	82 67	77 66	75 66	71 67	75 69	78 69	78 69	78 67	80 68	80 69	78 69	75 68	80 70	78 69	80 70	80 70	79 70	78 70	80 71	78.3 69.0			
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	83 66	77 63	79 65	80 67	80 68	80 60	81 61	81 63	83 67	82 64	80 67	79 64	77 69	77 60	79 64	83 57	80 68	82 68	79 67	80 64	80 64	80 67	76 68	80 69	80 68	82 66	80 65	81 62	82 68	81 65	80.1 65.1		
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	74 63	68 64	76 65	78 64	78 58	78 60	74 63	78 62	78 62	81 64	75 63	78 62	74 62	75 65	77 64	75 61	80 65	80 65	78 64	80 63	79 63	78 65	77 66	80 66	80 65	79 63	80 66	79 60	79 64	80 65	77.5 63.4		
LANAI CITY 672	MAX MIN	71 62	69 62	71 62	75 65	75 59	75 62	74 63	76 59	77 60	75 61	75 63	68 63	69 63	69 61	69 63	72 65	72 61	73 63	72 65	72 61	72 62	73 63	75 63	74 62	73 64	75 62	75 61	75 62	74 63		72.7 61.9		
ISLAND OF MAUI																																		
HALEAKALA R S 338	MAX MIN	62 41	57 48	59 45	66 45	68 40	65 40	59 40	57 46	62 40	61 35	61 41	62 41	61 42	53 36	56 44	58 42	61 43	60 43	63 44	64 49	67 47	63 45	57 43	59 46	62 45	64 40	63 44	68 53	71 48	66 45	61.8 43.4		
HANA AIRPORT 355	MAX MIN	80 72	77 68	78 70	80 70	80 60	81 69	80 75	82 74	83 73	81 67	80 66	80 74	73 69	78 71	80 72	82 72	82 70	81 69	81 70	80 70	80 69	80 69	81 69	82 71	81 75	80 70	82 70	80 71		80.0 70.4			
KAANAPALI AP 453.1	MAX MIN	81 69	75 69	80 69	81 68	82 68	83 63	83 62	85 66	84 67	85 65	83 67	77 65	77 65	80 65	80 68	84 68	84 68	82 68	83 67	83 66	83 66	83 68	87 68	82 68	83 69	84 69	83 68	84 69	81 68		82.2 66.7		
KAHULUI WSO 398 AP	MAX MIN	76 71	80 71	82 71	83 71	84 62	84 64	86 65	87 65	87 65	85 65	83 66	78 67	79 67	80 70	83 71	84 72	83 72	82 71	82 70	84 71	82 71	82 71	84 71	85 73	85 73	84 72	86 73	80 71		82.6 69.2			
KAILUA 446	MAX MIN	74 66	74 65	75 65	72 62	75 61	75 59	74 61	77 61	76 59	76 61	73 63	76 64	77 65	76 62	73 65	75 66	76 66	76 66	75 65	74 66	76 65	75 66	75 66	76 67	76 67	75 68	76 68	76 66		75.0 64.1			
KEAHAKAPU BEACH 260.2	MAX MIN	83 69	85 68	84 65	83 63	87 60	85 65	85 65	88 64	86 65	83 64	87 62	80 63	83 60	82 67	84 66	84 64	87 64	87 62	87 62	87 64	87 64	88 64	90 63	88 63	87 62	88 63	89 62	87 63	87 65	85.7 64.3			
KULA BRANCH STN 324.5	MAX MIN	72 58	69 50	72 56	69 51	69 54	72 55	71 55	73 55	73 56	72 54	71 56	72 54	71 53	74 55	71 57	72 56	73 55	70 54	70 52	74 53	72 55	73 55	72 55	74 55	75 55	72 54	71 54	74 53	74 55	71.7 54.4			

DAILY TEMPERATURES

HAWAII AND PACIFIC
APRIL 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KULA HOSPITAL 267	MAX MIN	70 55	71 55	71 56	72 55	70 53	70 54	70 54	70 54	73 56	70 55	73 55	69 53	68 53	68 53	69 55	72 55	73 53	73 53	70 54	71 53	72 57	71 52	73 52	73 52	74 54	73 54	72 52	71 51	72 52		71.1 53.8		
LAHAINA 361	MAX MIN	87 64	87 64	86 64	85 66	85 64	85 66	86 67	85 64	85 65	83 65	87 65	86 67	86 64	85 66	86 64	87 64	87 65	87 67	87 66	87 65	87 65	88 68	89 68	88 65	86 66	85 65	86 65	85 67	85 65		86.1 65.5		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	69 57	70 55	65 55	66 55	66 48	69 54	73 49				73 50	71 53	65 54	62 53	70 56	71 52	73 53	70 53	79 51	72 52			71 56	70 54	70 50	71 52	70 51	69 50	70 53	66 53		69.5 52.8	
HILO WSO AP 87	MAX MIN	83 68	82 71	81 69	81 68	81 62	82 67	83 64	82 65	83 64	84 63	81 66	74 67	73 68	81 67	83 68	82 66	83 65	82 67	82 65	82 65	82 67	84 67	85 70	85 71	85 67	84 69	82 65	81 65	82 68	84 68		82.0 66.9	
KAINALIU 73.2	MAX MIN	78 62	81 62	83 64	80 63	75 63	76 63	76 61	77 61	79 61	82 60	78 62	79 61	78 63	79 61	78 63	79 61	81 62	76 62	78 64	77 63	77 63	79 60	79 61	79 62	81 64	79 62	78 60	79 62	79 63	70 63		78.3 62.1	
KAMUELA 192.2	MAX MIN																																	
KAPOHO BEACH 93.11	MAX MIN	80 67	86 70	80 71	84 72	84 71	85 66	84 65	87 67	84 68	87 67	86 67	84 69	78 68	80 71																			
KE-AHOLE PT	MAX MIN																																	
KULANI CAMP 79	MAX MIN	61 52	65 51	62 52	62 53	60 40	60 39	65 42	64 45	64 46	64 44	66 46	66 51	58 51	59 49	62 55	65 45	66 48	64 47			65 51	65 43	63 50		64 49	62 52	64 48	64 41	65 54	65 52		63.3 48.0	
MAUNA KEA OBS 111.2	MAX MIN																																	
MAUNA LOA SLOPE OBS	MAX MIN	53 36	50 38	51 35	53 32	51 33	55 37	53 33	56 33	50 35	51 33	50 32	49 31	50 31	48 32	52 36	55 34	55 34	57 36	54 38	53 34	55 37	55 32	52 35	54 35	53 31	56 36	60 39	59 42	58 41	57 41		53.5 35.1	
MOUNTAIN VIEW 91	MAX MIN	75 58	75 63	72 63	70 61	75 58	76 61	77 58	79 58	76 60	74 60	79 59	76 63	67 63	76 60	75 60	75 63	78 61	75 61	77 60	76 59	77 59	78 61	79 62	76 61	77 62	73 62	77 59	73 61	73 61		75.4 60.6		
NAALEHU 14	MAX MIN	79 59	78 63	78 66	78 69	75 67	77 62	77 62	78 64	78 65	78 66	78 63	80 63	79 68	78 65	77 65	77 64	79 66	78 66	79 70	79 63	78 60	79 61	79 67	79 67	80 66	81 67	80 68	80 64	78 66	78 65		78.4 65.1	
OOKALA 223	MAX MIN	74 65	78 62	74 66	71 65	72 61	77 66	77 65	78 67	79 71	80 66	79 65	79 65	70 64	69 64	74 64	79 66	78 68	79 69	78 67	79 69	79 66	79 66	79 66	77 66	79 66	78 65	77 65	79 65	77 65		76.9 65.7		
OPIHIHALE 2 24.1	MAX MIN	80 59	83 60	82 62	78 62	77 61	79 59	78 58	79 58	81 59	78 62	78 60	79 60	78 59	80 59	79 63	80 60	79 58	78 59	77 61	81 61	74 57	78 56	81 60	79 59	79 58	77 58	79 59	77 59	79 60	81 59	79 62		79.1 59.5
PUUKOHOLA HEIAU 98.1	MAX MIN	89 72	84 71	90 71	88 70	95 66	94 65	86 67	86 64	88 67	88 67	85 70	91 72	90 71	89 66	89 71	86 67	87 71	91 70	88 66	89 66	89 66	89 72	89 71	84 73	91 68	90 72	92 69	86 69	87 69	86 66		88.5 68.8	
SOUTH KONA 2.31	MAX MIN	74 58	76 60	75 58	77 60	77 58	77 59	75 59	72 59	77 59	71 55	75 55	74 56	70 61	75 57	75 59	74 57	79 58	79 58	70 55	80 53	74 54	71 57	81 61	79 62	78 60	82 56	80 57	72 57	76 60	74 60		75.6 57.9	
UPOLU POINT USCG 159.2	MAX MIN	78 69	79 68	79 69	77 67	78 68	79 66	79 66	81 65	80 64	79 67	79 67	79 66	75 64	77 65	77 67	79 70	80 68	79 69	79 70	80 68	79 70	79 68	80 67	78 68	79 68	80 66	79 66	79 66	77 69	78 68		78.7 67.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
APRIL 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	84 73	84 74	83 72	84 78	83 77	83 78	83 78	85 78	84 78	85 78	83 77	84 77	83 77	80 73	82 76	82 76	84 73	83 77	84 71	83 76	82 72	81 75	83 72	83 78	83 78	81 77	84 72	84 76	83 77	84 76	83.1 75.9	
MIDWAY SAND ISLAND	MAX MIN	73 63	73 64	74 65	74 67	75 66	73 65	71 65	71 64	72 64	69 62	74 66	77 68	76 67	75 65	74 65	75 64	76 65	76 67	76 66	72 64	73 63	75 66	76 67	76 69	78 67	76 69	78 69	74 66	72 64	75 65	74.3 65.6	
PAGO PAGO WSO AP	MAX MIN	88 76	85 78	85 78	89 80	88 79	90 77	90 74	87 74	87 77	87 80	88 81	87 78	89 78	87 79	88 81	86 78	87 78	89 74	92 75	88 75	88 74	87 74	86 76	87 79	87 80	88 77	87 75	85 75	87 73	88 81	87.6 77.1	
* * *																																	
WESTERN PACIFIC ISL, NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	83 76	84 77	83 77	84 76	84 75	83 74	84 76	83 77	82 74	84 77	84 77	85 76	83 78	84 77	84 78	83 78	84 78	84 78	85 78	84 77	85 77	84 76	84 78	84 79	84 79	84 79	84 76	85 78	83 77	85 77	83.9 77.0	
CLARK AFB LUZON	MAX MIN	90 72	88 72	90 72	88 73	88 72	90 72	90 70	91 75	91 73	91 75	91 73	93 73	93 73	93 75	93 77	91 75	90 79	91 77	93 77	93 75	95 75	93 77	93 79	95 75	95 75	95 72	95 75	97 73	97 75	99 77	92.4 74.4	
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	85 73	85 72	84 73	83 74	85 75	84 71	84 71	85 73	84 72	85 73	84 74	85 73	85 74	86 73	86 74	85 75	86 73	85 74	85 75	85 72	85 73	85 72	85 74	85 75	86 76	87 76	85 74	86 74	87 68	86 75	85.1 73.4	
INARAJAN - NASA	MAX MIN	87 76	87 73	85 72	86 73	85 71	86 71	85 70	86 70	86 69	86 69	85 72	86 68	85 75	85 74	86 73	87 74		87 71	86 63	86 72	86 74	87 74	87 72	86 76	87 76	86 71	87 71	86 71	86 71	86.1 71.8		
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	83 73	83 73	85 72	84 74	83 75	84 75	84 75	85 75	86 74	84 74	83 72	83 73	85 76	85 77	82 74	86 74	87 76	85 73	84 72	84 75	87 73	86 76	88 75	87 76	87 75	87 76	85 75	86 75	85 77	84.9 74.4		
* * *																																	
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	89 75	89 73	88 75	81 74	90 74	88 74	86 75	88 75	88 76	88 76	89 76	89 76	92 76	88 76	89 73	87 75	89 77	88 76	90 73	89 77	88 73	90 75	82 77	88 73	88 75	90 74	88 75	89 78	88 77	90 76	88.3 75.2	
KWAJALEIN MISSILE RGN	MAX MIN	88 80	88 78	88 74	87 77	87 78	88 78	87 78	87 77	88 79	88 76	88 80	87 79	88 77	88 77	88 77	83 75	86 78	87 78	86 75	84 75	87 75	83 77	87 79	87 78	87 76	81 75	86 79	87 80	85 76	86 77	86.6 77.3	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	85 79	85 78	86 75	86 79	86 78	86 78	86 76	87 78	87 76	87 80	86 77	86 77	87 77	86 75	86 74	87 79	86 76	85 74	86 75	87 76	86 77	86 79	86 76	87 79	86 78	87 75	87 78	87 79	87 77	87 79	86.2 77.0	
METALANIM	MAX MIN	84 69	84 68	86 70	88 72	88 73	87 74	87 70	87 72	88 67	88 75	88 72	88 74	88 72	88 75	87 74	88 70	88 73	88 70	89 70	88 69	88 70	90 70	86 69	88 73	89 70	90 71	85 71	85 69	89 69	87.2 71.0		
PONAPE WSO	MAX MIN	87 73	87 72	88 76	90 77	88 79	89 78	91 77	89 76	89 71	90 80	89 78	89 77	88 77	89 75	88 77	83 75	91 75	90 79	89 75	89 76	89 76	86 75	91 75	90 75	91 76	90 75	85 75	89 75	91 74	88.8 76.0		
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	85 77	87 77	88 78	88 77	88 78	88 78	89 79	87 76	87 79	89 78	90 81	86 76	87 75	87 78	88 79	88 81	88 80	89 79	88 78	88 76	88 79	88 79	88 76	89 79	83 75	82 75	88 75	86 77	88 78	88 78	87.4 77.6	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	87 74	86 75	81 72	88 75	87 75	88 75	87 74	88 77	88 75	88 75	88 78	88 77	89 78	88 78	87 76	88 77	88 75	88 76	88 77	88 75	89 76	88 75	88 74	89 77	89 77	87 76	87 75	88 74	88 74	87.7 75.7		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
APRIL 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324 5	4	MAX MIN	74 67	69 67	70 65	- -	- -	- -	70 62	68 65	69 65	70 65	69 64	- -	- -	74 66	71 67	69 65	71 65	73 65	- -	- -	71 66	72 68	71 66	71 68	72 68	- -	- -	73 68	72 69	72 68	71.0 66.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
APRIL 1980

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO AP 1020.1	EVAP WIND MAX MIN	.17 325 81 61	.35 254 81 60	.28 235 76 71	.32 240 79 67	.34 253 81 60	.33 190 82 60	.25 271 81 62	.31 156 85 63	.23 207 84 64	.25 144 85 62	.26 139 83 62	.25 258 74 58	.40 299 76 58	.31 316 71 58	.23 262 75 58	.36 165 76 60	.05 219 71 62	.22 226 76 60	.28 207 77 61	.37 228 82 65	.35 216 81 60	.22 255 79 60	.40 253 76 63	.29 266 81 63	.19 239 75 62	.26 250 76 61	.31 251 81 61	.30 214 81 63	.33 188 83 63	.21 171 79 63	8.42 6897 78.9 61.7	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.23 32 86 65	.33 37 87 65	.30 42 89 66	.35 31 93 65	.33 35 91 65	.30 22 89 65	.40 25 92 65	.30 12 85 65	.43 26 91 65	.30 23 94 68	.37 15 88 64	.46 40 93 63	.45 54 88 62	.45 50 90 64	.46 30 89 66	.30 35 92 68	.60 34 92 67	.25 30 86 68	.40 31 92 68	.75 29 93 66	.41 31 93 65	.12 22 86 66	.29 44 91 67	.24 39 91 67	.45 42 90 65	.49 46 92 65	.60 30 87 65	.41 32 89 66	.45 33 91 67	11.67 978 90.0 65.7		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
APRIL 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP WIND	.41 205	.47 199	.33 251	.22 228	.20 211	.32 277	.30 213	.35 232	.36 198	.32 163	.32 218	.36 227	.43 247	.23 249	.19 231	.26 188	.26 197	.32 208	.37 229	.27 188	.36 199	.32 229	.42 198	.38 208	.37 210	.20 197	.37 207	.28 173	.31 150	.37 218	9.67 6348
PAGO PAGO WSO AP	EVAP WIND MAX MIN	19 69 92 71	.24 60 88 74	.01 115 95 70	.14 140 92 71	- 129 92 70	- 60 92 71	.17 20 98 71	.25 27 93 70	.25 45 96 70	.30 89 97 70	.26 110 97 70	.22 165 97 70	.24 134 97 70	- 242 94 70	- 151 97 74	.15 166 89 75	.25 98 90 69	.18 44 95 68	.22 30 95 68	.14 19 95 68	.13 23 94 69	.21 38 95 70	.16 155 92 72	.28 189 92 70	.31 165 90 72	- 172 90 70	.48 103 95 69	.16 61 93 71	.15 44 92 73	.39 141 94 66	6.588 3004 93.7 70.4
WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP WIND MAX MIN	.11 145 83 68	.42 171 85 69	.32 148 87 68	.28 182 86 69	.25 163 86 68	.26 153 83 68	.20 109 89 67	.30 118 85 73	.25 137 86 69	.19 110 88 69	.25 130 85 70	.18 175 86 70	.31 149 84 69	.28 126 88 68	.32 129 89 70	.27 109 87 69	.29 125 89 69	.28 106 86 70	.30 175 87 72	.17 170 84 70	.34 179 85 69	.23 91 85 69	.23 133 85 69	.20 136 87 71	.27 150 91 69	.30 155 91 71	.28 107 90 70	.28 175 89 67	.25 78 89 66	.32 133 88 70	7.93 4167 86.8 69.2
CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP WIND MAX MIN	.32 116 97 72	.11 57 87 72	- 75 88 72	.17 102 92 71	.20 90 92 73	.32 106 91 71	.22 96 92 72	.27 82 97 72	.27 78 95 71	.30 73 95 72	.27 108 91 71	.20 100 93 73	.24 102 91 73	.22 97 92 74	.16 67 90 74	.21 81 92 73	.27 75 93 72	.24 71 90 74	.22 88 90 73	.26 60 93 71	.17 75 92 73	.17 60 93 74	.21 75 92 72	.18 44 92 72	.28 54 92 72	.22 73 91 75	.30 132 94 74	.22 77 94 74	.22 55 97 75	.20 75 94 73	6.878 2468 92.2 72.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
APRIL 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAOH 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIU LA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033	4735	03	WAIIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A 5864	03	WAIIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA		22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943	9253	03	WAIIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILALUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU													
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	8A				HAWAII STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A				WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A				WAIALUA SUGAR CO INC
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A				JEFF WALLACE
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A				US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240					C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A				NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			G	LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					C	FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI				BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P				D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A				CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO		21 35	157 54	20					C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					C	JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A				RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A				R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A				UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854					C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			C	WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A				WAIALAE COUNTRY CLUB
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A			C	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A				BEN MAYES
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO				WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI				WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120					C	U H WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330						WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A				WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A				ART MONTOYA
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR				MOLOKAI RANCH CO LTD
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140					C	KALUA KOI GOLF COURSE
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825					C	DEL MONTE CORPORATION
MAUNALO A 511	A 6190	01	MOLOKAI		21 08	157 13	1070					C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A				HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI				MOLOKAI RANCH CO LTD
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI				U S D A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A				DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620		7A			C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO				U S D A
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI				KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM				KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		VAR			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	3A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	56 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH CO
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3034	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAINA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142		0905	02	S HILO	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03	KA'U	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02	HAMAKUA	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCONS NP HQ 54		1303	02	KA'U	19 26	155 16	3871	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01	N KOHALA	20 14	155 50	580		6A		C	K L BOND
HILO COUNTRY CLUB 86.6	R	1487	02	HAWAII	19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87		1492	02	S HILO	19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HOUALOOLA 70	A	1557	04	N KONA	19 38	155 55	3220		VAR			U S SOIL CONS SERVICE
HONANUHI 27		1665	04	S KONA	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02	N HILO	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02	S HILO	19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONJAUUA 71	A	2047	04	N KONA	19 40	155 53	6250		VAR			U S SOIL CONS SERVICE
HUALALAI 72	A	2151	04	N KONA	19 42	155 52	8190		VAR			U S SOIL CONS SERVICE
HUEHUE 92.1	A	2156	04	N KONA	19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALO 24	A	2327	04	SOUTH KONA	19 30	155 55	1340		8A			DILLINGHAM INV CORP
KAHIAWA MAUKA 3.8		2512	03	KA'U	19 08	155 46	4120				C	RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01	HAWAII	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04	KONA	19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04	N KONA	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04	HAWAII	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02	S HILO	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03	KA'U	19 02	155 40	1375		WI			KAWAIHAE RANCH
KAMUELA 192.2		3077	01	S KOHALA	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03	KA'U	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02	HAWAII	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02	PUNA	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02	PUNA	19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT		3910	04	N KONA	19 44	156 04	20	6P				RESCH CORPS OF UNIV HI
KEATINA CAMP 22.1		3925	03	KA'U	19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04	S KONA	19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	19 55	155 21	5280				C	U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A	4625	03	KA'U	19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1		4680	01	N KOHALA	20 14	155 48	537		7A			K LYMAN BOND
KOIAHE LOWER 196	A	4685	01	HAMAKUA	20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04	N KONA	19 39	156 01	30				C	FAA
KONA VILLAGE 93.8		4765	04	N KONA	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUM	20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02	S HILO	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	A	5761	02	HAWAII	19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A	6134	03	KA'U	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02	HAWAII	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01	N KOHALA	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03	KA'U	19 11	155 30	600		MO			KAWAIHAE RANCH
MOUNTAIN VIEW 91		6552	02	PUNA	19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A	6588	03	KA'U	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A	6697	04	S KONA	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02	N HILO	20 01	155 17	430	6A	6A		C	DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02	PUNA	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAI 217		7204	01	HAMAKUA	20 05	155 26	415		8A		C	DAVIES HAMAKUA SUGAR CO
PAAUULO 221		7312	01	HAMAKUA	20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03	KA'U	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02	PUNA	19 30	154 57	670		6A			PUN SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02	PUNA	19 30	154 57	683				C	GEORGE SALAZAR
PAPAIKOU 144.1		7711	02	S HILO	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	A	7721	02	S HILO	19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02	S HILO	19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A	8063	02	HAMAKUA	19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
APRIL 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		M0			W H GREENWELL RANCH
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520				C	PUU WAAWAA RANCH CO
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKEA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST
NEW STATIONS												
ISLAND OF HAWAII												
KE-AHOLE PT	3910	04	N KONA		19 44	156 04	20	6P				RESCH CORPS OF UNIV HI
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
APRIL 1980

STATION	INDEX NO	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:

	Soil Type	Soil Cover	Degree of Slope
Kii-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- + Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

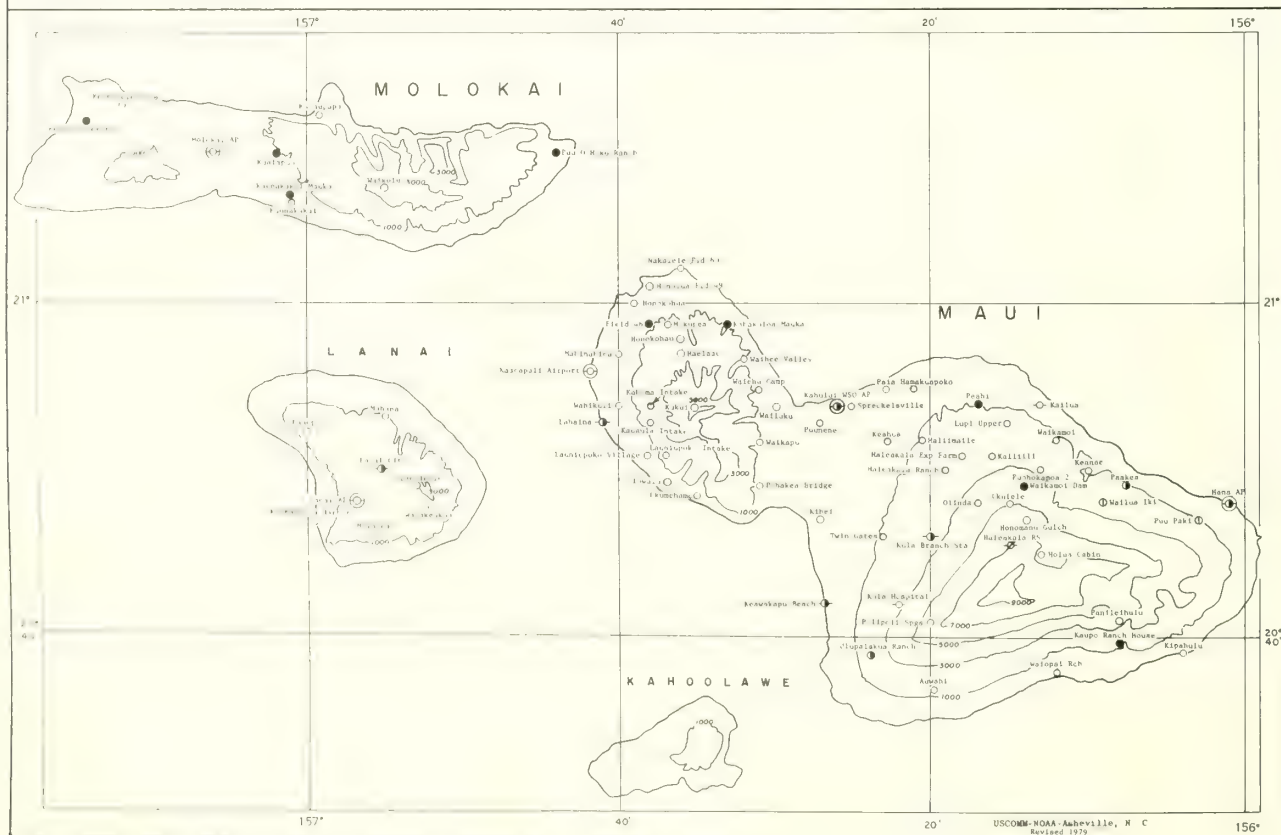
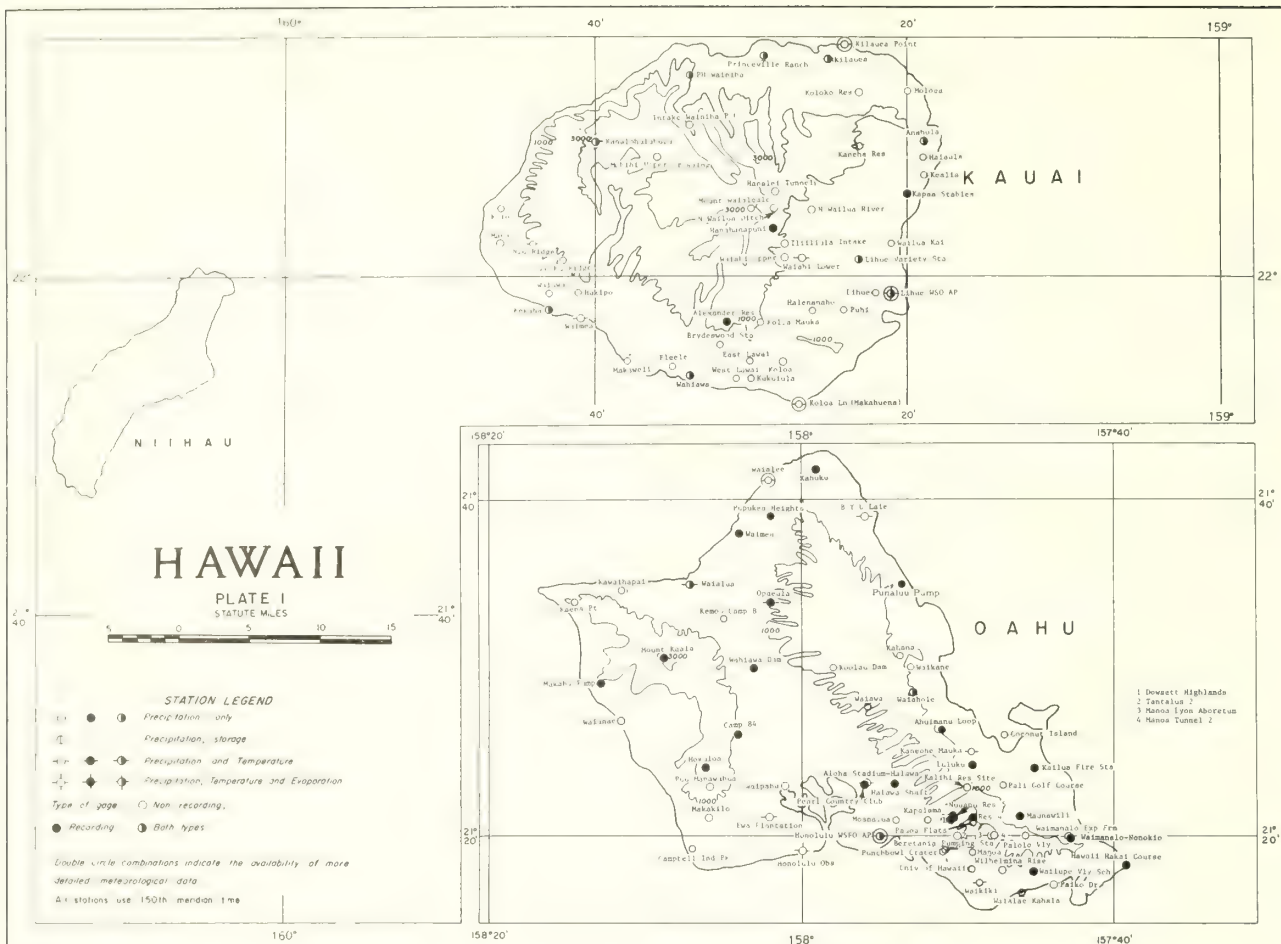
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

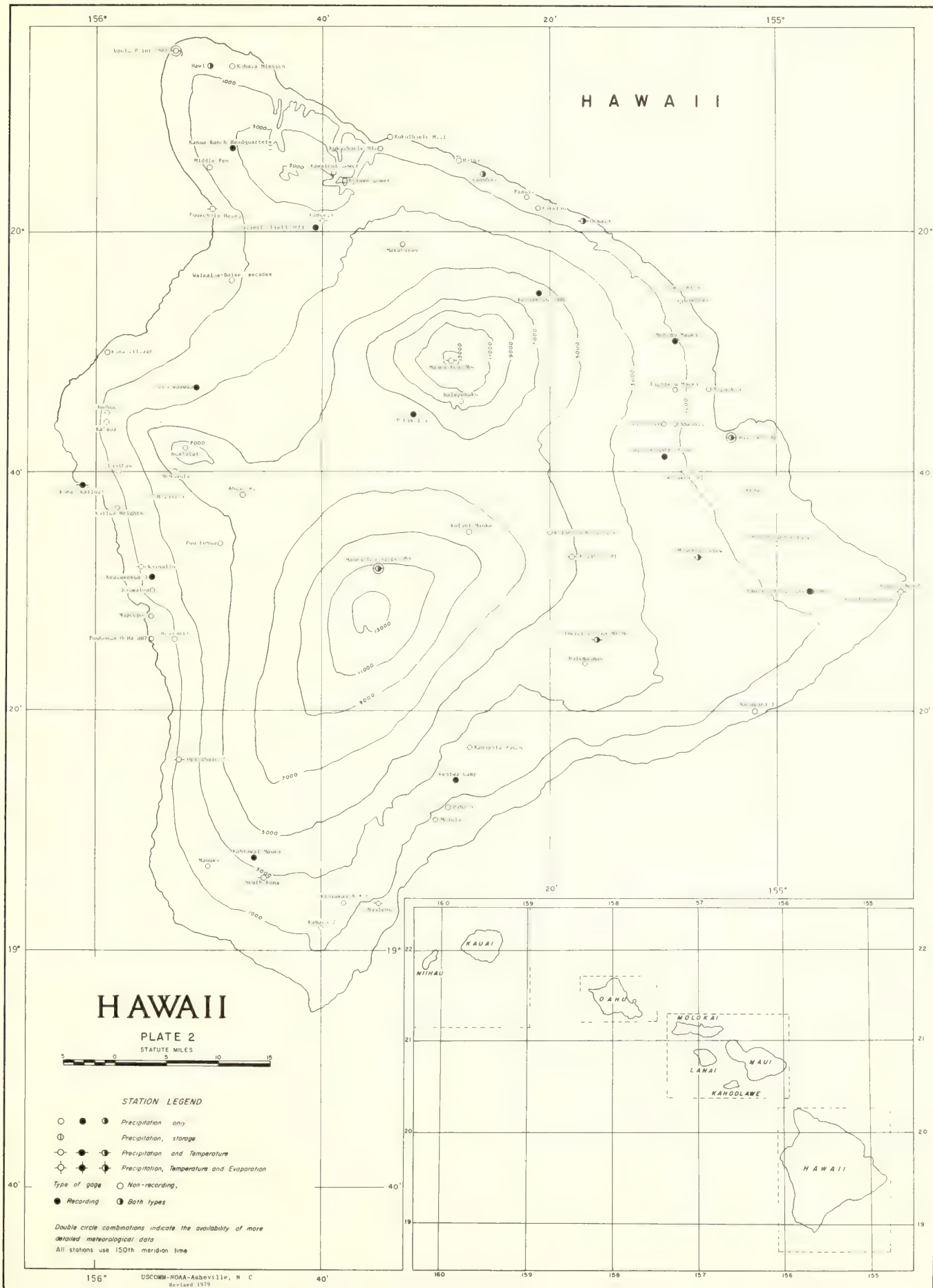
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

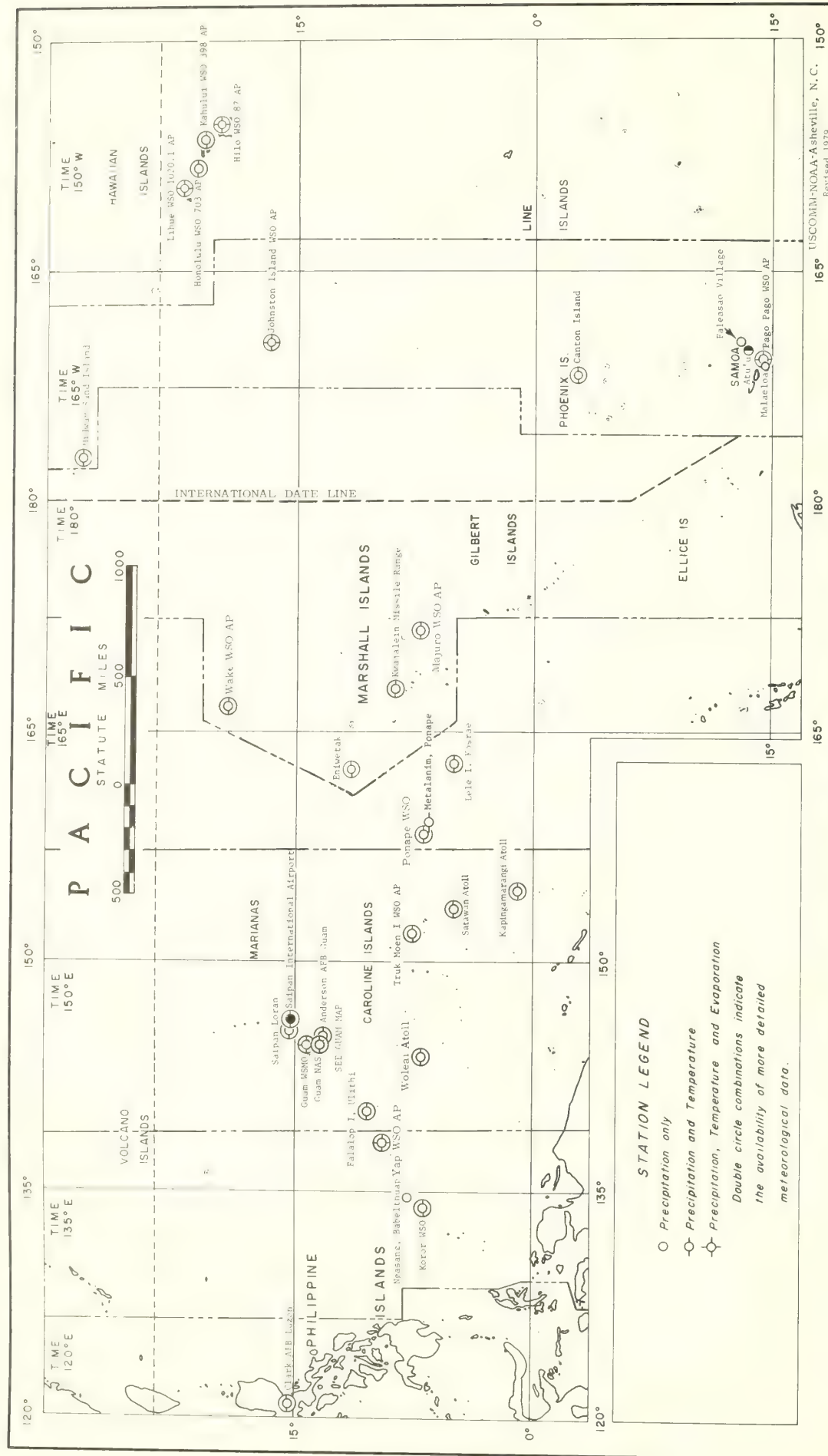
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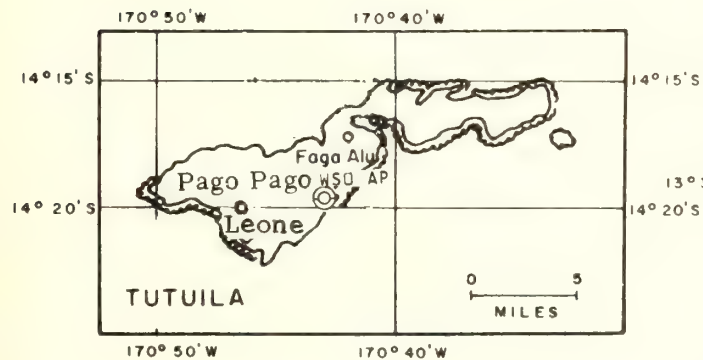
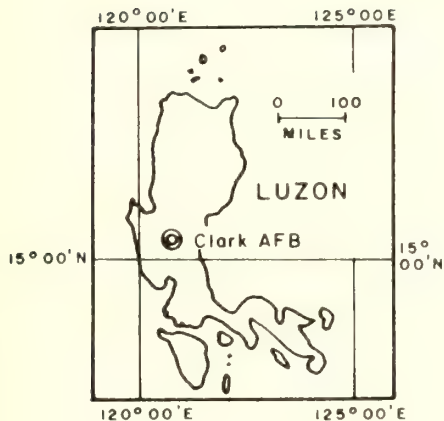
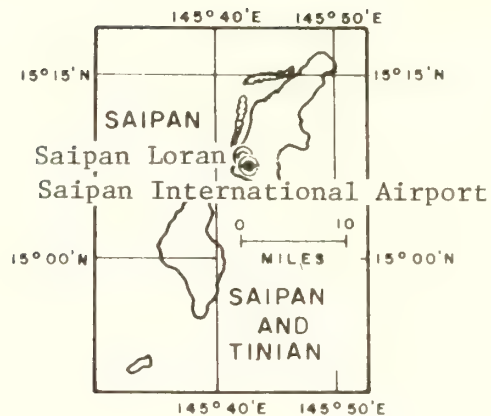
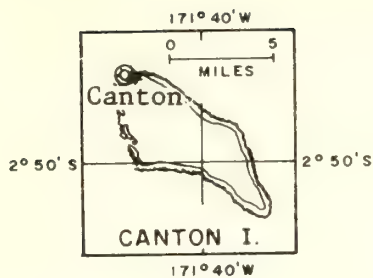
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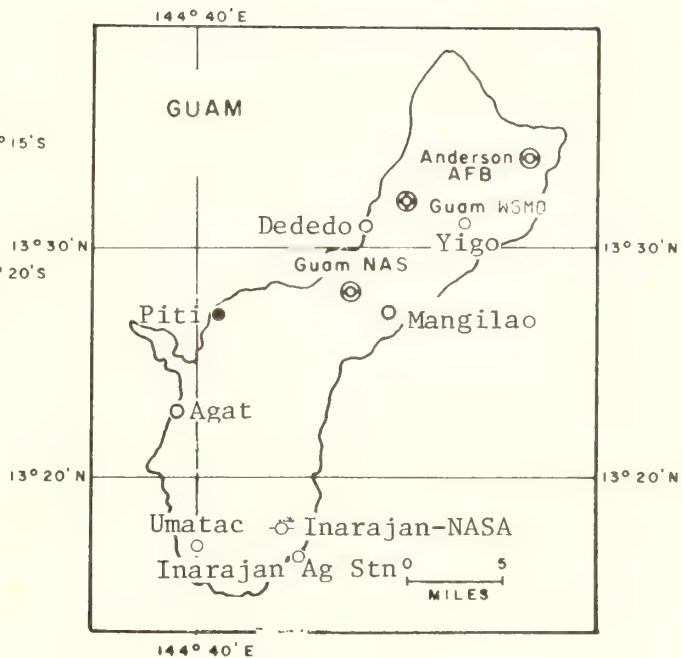


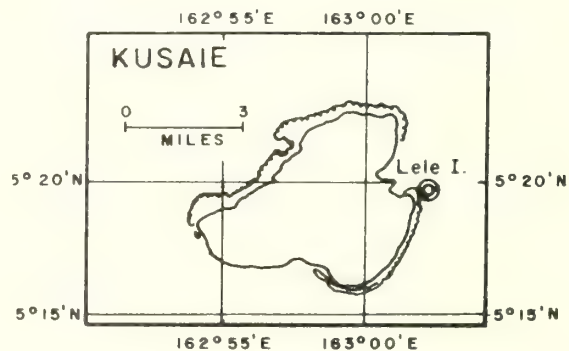
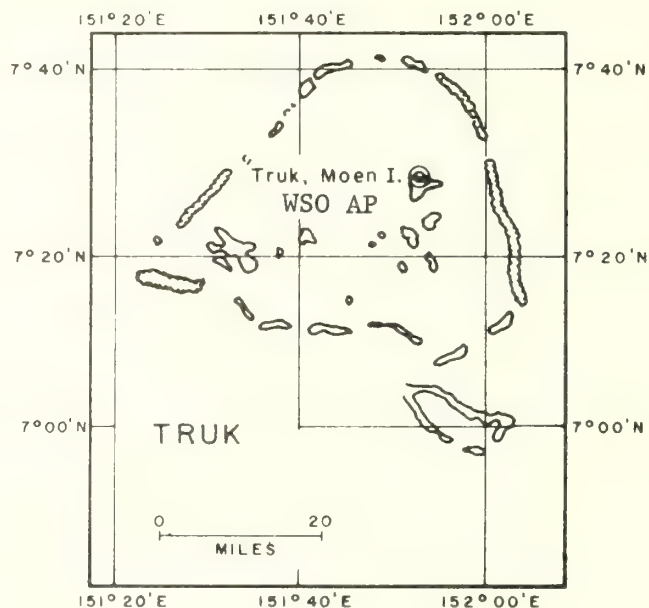
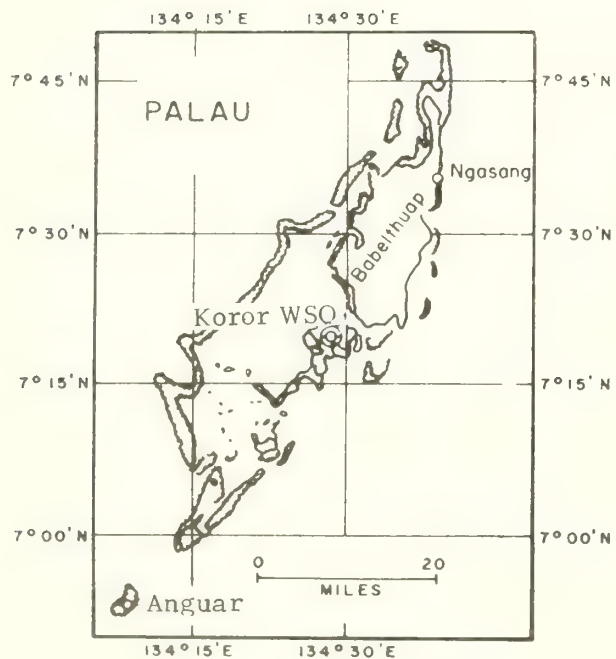
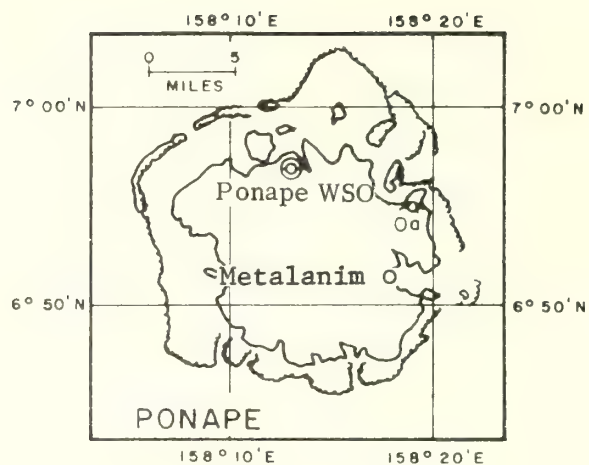
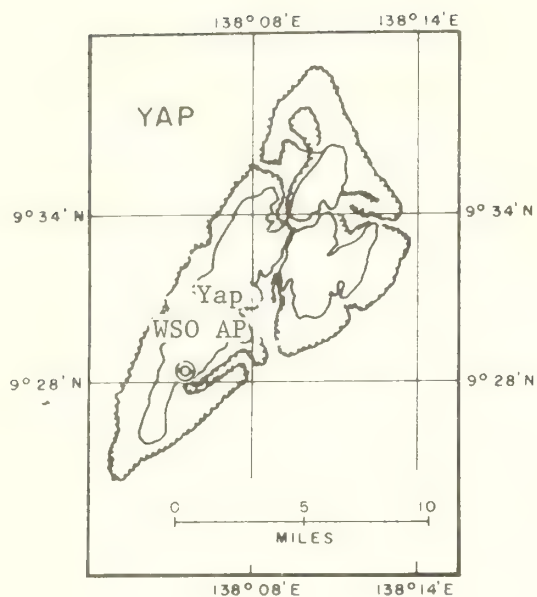




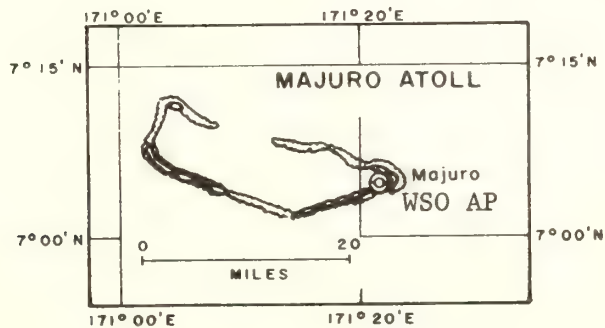
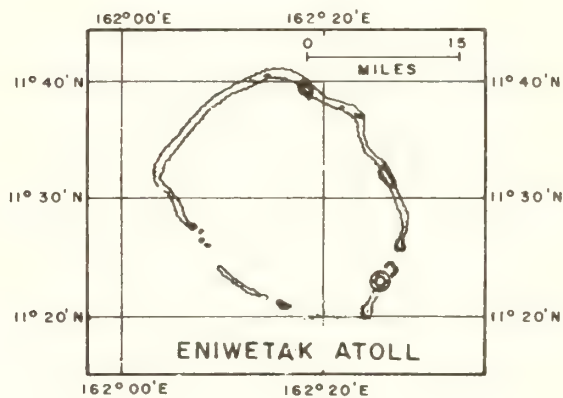
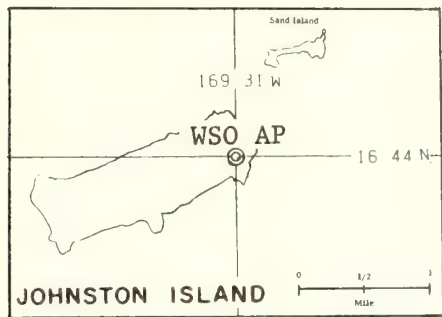
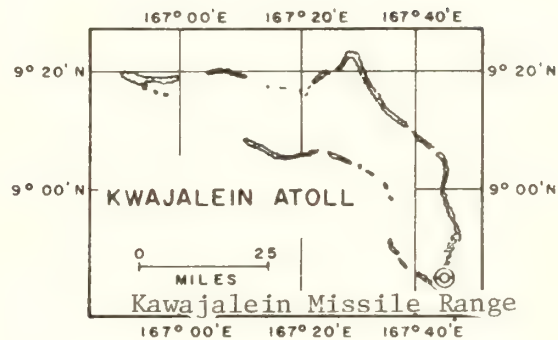
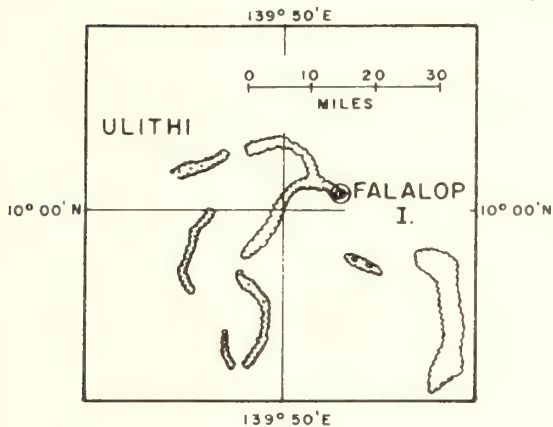
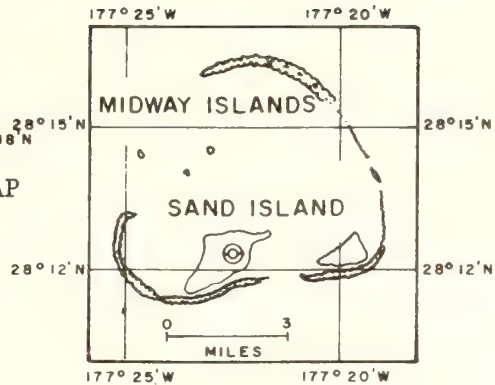
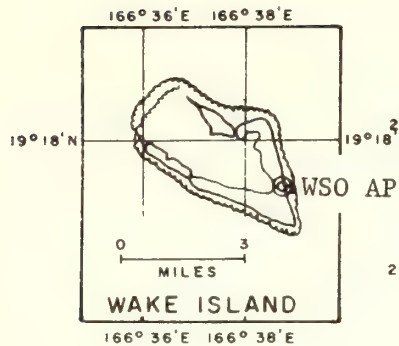


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MAY 1980

VOLUME 76

NUMBER 5

Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	4 STATIONS	91	DATE	30+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	32	DATE 13
GREATEST TOTAL PRECIPITATION:	KUKUI 380	MAUI	104.00	
LEAST TOTAL PRECIPITATION:	PUUNENE 396	MAUI	.29	
GREATEST 1 DAY PRECIPITATION:	MAUNA KEA OBS 111.2	HAWAII	5.78	DATE 12

SUPPLEMENTAL DATA

	WIND (SPEED M.P.H.)						RELATIVE HUMIDITY AVERAGES PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL		
							GREENWICH CIVIL												
							12	18	00	06									
GUAM WSMO	-	-	-	25	SE	21+	-	78	80	90	2	6	13	5	1	0	27	41	8.7
HILO WSO 87 AP	14	1.6	6.5	20++	11	29	84	76	63	81	3	6	20	2	0	0	31	47	7.4
HONOLULU WSO 703 AP	7	10.0	12.3	25++	7	09+	78	73	59	73	10	9	3	0	0	0	22	71	6.5
JOHNSTON WSO AP	8	14.3	14.8	32++	7	02	84	83	73	81	6	5	1	1	0	0	13	90	4.8
KAHULUI WSO 398 AP	6	10.9	12.9	31	NE	07	-	71	55	70	7	9	2	0	0	0	18	64	5.9
KOROR WSO	35	2.3	6.7	30	SE	31	88	-	80	75	2	8	13	3	1	1	28	57	7.9
KWAJALEIN MISSILE RGN	7	13.1	13.7	26++	10	08+	86	87	81	83	5	5	9	1	3	3	26	-	8.8
LIHUE WSO 1020.1 AP	6	10.0	12.5	24++	6	08	86	84	70	81	6	12	6	0	0	4	28	38	7.1
MAJURO WSO AP	7	10.7	11.3	26	E	15+	83	84	76	81	3	11	6	5	4	0	29	69	9.5
PAGO PAGO WSO AP	13	7.6	10.8	28++	14	17	91	90	82	88	5	5	9	5	2	4	30	2	8.9
PONAPE WSO	-	-	-	18	N	08	92	-	83	85	0	6	6	6	6	7	31	13	9.2
TRUK,MOEN I, WSO AP	9	3.1	8.4	34	NW	17	87	-	81	80	3	9	5	3	5	2	27	50	9.5
WAKE ISLAND WSO AP	7	14.0	14.3	29++	8	28	83	82	68	74	4	11	1	1	0	0	17	76	5.4
YAP WSO AP	5	4.3	9.0	28	NE	09	88	-	79	76	5	6	11	1	1	1	25	49	8.2

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
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NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MAY 1980

STATION		TEMPERATURE												PRECIPITATION									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	TOTAL	SNOW, SLEET		NO. OF DAYS			
										MAX.	MIN.	30° OR BELOW	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																							
ISLAND OF KALAI																							
ANAOHOLA 1114	A												8.46										
KANALOHULU 1075		69.5	54.0	61.8		76 14	47 6+		0	0	0	0	10.63		1.80 31			0		15	7	5	
KILAUEA POINT 1133																		0					
KILOA 936	A												8.73		1.77 29			0				2	
LITHE WSO AP 1020.1	I/R	81.0	70.0	75.5	.0	84 16	68 30+		330	0	0	0	12.20	9.77	3.65 16			0		10	4	4	
MAHALUPO 941.1																		0				1	
MANA 1016																		0				3	
N. WAILUA DITCH 1051	A												6.63	5.58	1.90 28			0		5			
PH. WAINIHA 1115													25.82		3.71 27			0					
PUEHU RIDGE 1040													6.19	4.23	2.00 27			0		5	4	3	
WAHIAWA 930	A												4.74	2.99	2.23 29			0				1	
WAIKAI LOWER 1054		78.2	65.7	72.0		80 30+	61 31		223	0	0	0	22.00	13.89	5.35 29			0		30	11	4	
WAIKAI 947		85.5	67.9	76.7		89 19	64 3+		369	0	0	0	3.97	2.92	1.58 31			0		5	2	2	
ISLAND				71.5																			
													10.94										
ISLAND OF OAHU																							
ALOHA STADIUM-HALAWA		82.5M	70.0M	76.3M		91 25				1	0	0										0	
B. Y. U. LAIE 903.1		79.5	70.8	75.3		84 30	67 25		323	0	0	0	5.66		1.22 25			0		10	4	2	
HONOLULU OBSERV 702.2		86.1	68.3	77.2		89 11	63 2		385	0	0	0	.64		.31 31			0		2	0	0	
HONOLULU WSO AP 703	R	85.1	71.4	78.3	1.4	87 22+	67 14		418	0	0	0	.78		.25 29			0		3	0	0	
KANEONE MAUKA 781		81.0	73.7	77.4	3.2	87 25	70 3		389	0	0	0	7.68	2.90	1.13 26			0		15	6	2	
KII KAHUKU 911		81.1	68.9	75.0		86 30	63 20		320	0	0	0	4.44		2.00 28			0				2	
KOOLAU DAM 933	A												18.06		3.05 1			0		22	9	6	
MANOA LYON ARBORETUM		79.1	67.3	73.2		86 24	65 4		262	0	0	0	19.95		1.73 16			0		29	12	9	
NUUANU RES. 4 783	A	80.5	65.9	73.2	3.2	85 29+	64 28+		264	0	0	0	14.38	6.02	1.84 26			0		26	9	6	
OPEAULA 870																							
PALOAL VALLEY 718	R												17.76	7.89	2.20 30			0		27	12	6	
POU MANAWAHUA 725.6		76.9M	63.9M	70.4M		81 24	62 3+		176	0	0	0	3.54		1.96 30			0		2	2	2	
WAIKOLE 837	A												12.60					0					
WAILUA 847	A	83.4	65.6	74.5	1.2	89 30+	62 17+		299	0	0	0	2.73	1.39	1.84 31			0		4	1	1	
WAIKIKI 717.2		86.2	70.6	78.4		88 18+	68 14+		424	0	0	0	2.09		.59 26			0		5	2	0	
WAIMANALO EXP FM 795.1		81.0	70.5	75.8		85 17	67 24		339	0	0	0	9.62		3.16 31			0		8	4	4	
WAIPIHU 750	A												1.03		.44 29			0				0	
ISLAND				75.4									8.06										
ISLAND OF MOLOKAI																							
MOLOKAI AP 524		82.8	67.9	75.4		87 28	64 1		327	0	0	0	3.44		1.11 31			0		6	3	1	
ISLAND				75.4									3.44										
ISLAND OF LANAI																							
LANAI CITY 672	A	75.1	62.9	69.0	.0	79 15	61 31+		130	0	0	0	4.83	1.72				0					
ISLAND				69.0									4.83										
ISLAND OF MAUI																							
HALEAKALA EXP FARM 434	A	64.5	45.6	55.1	1.5	69 24	41 5+		0	0	0	0	7.92		2.47 1			0		10	5	2	
HALEAKALA R.S. 338													1.48		.49 13			0		4	0	0	
HANA AIRPORT 355		82.3	71.6	77.0		85 31+	68 12+		378	0	0	0	6.16		.99 31			0		15	3	0	
HONOKOHUA 493	A												6.37					0					
KAAHAPALI AP 453.1		84.8	68.1	76.5		88 31+	61 15		363	0	0	0	1.61		.42 31			0		5	0	0	
KAHULUI WSO 398 AP	R	86.8	71.0	78.9	3.5	91 30+	65 14		442	6	0	0	.53		.12 31			0		2	0	0	
KEANAE 346	A	76.6M	66.2M	71.4M	.8	80 30	63 19+		206	0	0	0	9.65		1.37 13			0				3	
KIPAHULU 258													18.90					0					
KULA HOSPITAL 267		71.7	55.9	63.8	.3	75 29	53 5+		6	0	0	0	8.80	1.99	.72 20			0		24	5	0	
LAHAINA 761													3.92	1.72	2.00 31			0		6	2	1	
PAIA 406		87.1	68.1	77.6	2.7	89 19+	65 14+		397	0	0	0	.76		.39 31			0		3	0	0	
WAILUKU 386	A												2.32		.75 31			0		9	2	0	
ISLAND				71.5									.64		.38			0				0	
													5.31										
ISLAND OF HAWAII																							
HAWAII VOLCNS NP HQ 54	R	70.4	53.8	62.1	1.7	75 16	50 29		3	0	0	0	6.89		.81 13			0		20	5	0	
HILO WSO AP 87	A	85.0	69.6	77.3	3.8	88 29	66 14		390	0	0	0	5.88	4.19	.92 12			0		22	2	0	
HUEHUE 92.1													2.88		1.01 27			0				1	
KAINALIU 73.2		79.2	63.7	71.5		82 23+	61 16		207	0	0	0	3.93		.54 25			0		14	1	0	
KAPOHO BEACH 93.11		85.1M	69.2M	77.2M		89 26	65 11		383	0	0	0	3.81		.51 22			0		15	1	0	
KEAAU 92																							
KE AHOLE PT 68 13		87.4	68.1	77.8		90 23+	63 6		400	2	0	0	1.03		.35 12			0		5	0	0	
KUKUIHALE HIC 199													5.77	.19	1.51 5			0		13	5	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MAY 1980

STATION	TEMPERATURE													PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.	MIN.	32° OR BELOW	32° OR BELOW					32° OR BELOW	32° OR BELOW	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																										
KULANI CAMP 79	64.3M	52.1M	58.2M		69	2	46	23+		0	0	0	0	0	6.94		1.20	13	.0	0		5	2	1		
PAHALA 21															2.16		1.35	31	.0	0		3	1	1		
PUUKOHOLA HETAU 98.1	88.6	68.4	78.5		91	19+	61	8		427	8	0	0	0	.86		.31	24	.0	0		3	0	0		
SOUTH KONA 2.31	78.2M	58.0M	68.1M		86	25+	54	1		112	0	0	0	0	.73		.14	15	.0	0		3	0	0		
WAIKAE SCD 88.2															14.22		1.67	13	.0	0		26	12	4		
ISLAND			71.3												4.59				.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
MAY
1980

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
												MAX.	MIN.	NO. OF INCHES	NO. OF TENTHS					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
MAY 1980

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	8.46		.05		.12	.05	.02	.11	.41			.20	.05	.03	.08	.03			4.00	.18	.04	.08	.05			.79	.05	.05	1.62	.45		
BRODSWOOD STA 985	A	8.93	.02	.14		.20	.04	.03	.40	.43			.42	.20	.04	.13	.02			.05	.14	.08	.17	.06			.21	.29	.43	4.00	1.43		
EAST LAHAI 934	A	7.01	.05	.24		.27	.03	.04	.56	.24			.82	.23	.05	.04	.04			.25	.34	.17	.25	.02			.36	.05	.40	1.68	.88		
ELELE 927	A	5.31				.02		.01	.13	.04			.06	.01						1	.01	.01	.08				.17	.08	.22	3.47	.99		
HALAULA 1110	A	9.02		.07		.12	.21	.05	.21	.32			.22	.03	.03	.03	.03			3.65	.20	.09	.12	.01			.87	.28	.18	1.75	.55		
HALEMANAHO 1006	A	13.18	.03	.26			.32	.06	.18	.52	.40			.74	.15	.11	.11	.21		.52	.58	.09	.29	.05			1.91	.17	.42	4.41	1.65		
HANAIE TUNNEL 1053	A	36.40																														36.40	
HUKIPO 945	A	5.16																		1.72	.40	.43	.97	.56			3.54	1.34	.94	3.34	1.92		
ILILIULA INTAKE 1050	A	21.61	.28	.36			.56	.29	.20	.10	.27			.78	.80	.27	.46	.48															
INTAKE MAINIHA PC 1086	A	17.74					.77				1.85							2.92						2.90									
KANALOHULU 1075	A	10.63	.10	.14	.06	.05		.05	.10	.10			.11	.11			.04	.60		.05	.02	.18	.05		1.49		.20	.80	1.52	1.27	1.75	1.80	
KANEHA RESERVOIR 1092	A	17.06	.07	.21		.23	.40	.07	.27	.80			.47	.20	.03	.35	.04	.60		5.20	.73	.18	.38	.12			3.35	.27	.20	2.25	.94		
KEALIA 1112	A	6.18	.03	.04		.16	.04	.02	.12	.22			.22	.04			.03			1.80	.25	.03	.03	.01			.48	.38	.10	1.30	.83		
KEKANA 944	A	3.37																														1.18	
KILAUEA 1134	A	10.99	.20	.18	.08	.04	.14	.07	.26	.37	.47		.03	.14	.08	.17	.26	.11	.87	1.10	.08	.37	.14	.21	.26	.32	.22		.61	1.62	.61	.38	1.32
KILAUEA POINT 1133	A	5.17		.04	.05		.33	.01	.03	.26	.34			.40	.26	.07	.02	.05		.39	.22	.11	.02	.06				1.01	.01	.45	.55		
KOLO 1033	A	8.73	.19	.27		.36	.01	.10	.55	.20			.63	.14	.05	.11	.14			.47	.39	.21	.36	.03	.30		.98	.16	.29	1.77	1.32		
KOLOA MAUKA 994	A	5.42					.62	.02					2.20	.05						.95	.10						.96						
KOLOKO RES 1131	A	13.21	.03	.05	.17	.04	.13	.21	.15	.01	.06		.29	.05	.15		.50	1.61	.07	.04	.40	.08	.09	.21	2.26	.79	.04	.96	.36	1.23	1.42	1.37	
KUKULUA 935	A	4.27	.05	.05		.21	.03	.04	.26	.14			.41	.10	.01		.01			10	14	14	.06				.75	.11	.06	1.08	.52		
LIHUE VARIETY ST 10621	A	11.63	.17			.55	.18	.02	.32	.73			.40	.15	.10	.08	.02			1.05	.20	.20	.37	.05			1.70	.70	.05	2.95	1.44		
LIHUE 1020	A	11.01	.02	.05		.23	.04	.02	.27	.37			.30	.07	.03	.02	.01			1.68	.37	.05	.06										
LIHUE WSD AP 1020.1	I/R	12.20	.04	1	16	.02	.02	.08	.16	.15		.13	.03	1	.01		3.65	2.21	.07	25	.08	1	.02	.25		.09	.06		2.55	.04	2.13	1	
MAHALEPU 941.1	A		.08	.04		.20	.06	.07	.32	.10			.43	.20	.15												.45	.03		1.47	.63		
MAKALEI 965	A	6.66						.01					.01										.01	.01		.21	.03		2.20	1.24	2.22		
MAHA 1026	A	6.63								.04													.02	.01		.07	.40		1.92	.92	1.68	1.52	
MOHUKI UPR CROSS 1083	A	10.06	.26	.08	.26	.08					.17	.26	.26				.08	.26	.08	.26	.17	.17	.08	.60	.34	.17	.94	.85					
MOLOAA 1145	A	8.86					.22																										
MOUNT WATALEALE 1047	R																																
NTU RIDGE 1035	A	7.54																															
N. WAILUA DITCH 1051	A	25.82	.31	.32		.81	.27	.18	1.12	2.40			.86	.55	.17	.88	.26	.18		1.56	.45	.32	.95	.40			2.75	3.71	1.43	1.56		3.10	
N. WAILUA RIVER 1055	A	37.20																														37.20	
PH. MAINIHA 1115	A		.33	.74		.45	.03	.06	.76	.72			.84	.28	.16	.23	.02			.67	.78	.44	.68	.03			.53	2.00	.17	.37	.40		
PRINCETON RANCH 1117	A		.13	.17		.51	.22	.09	.35	.31			.49	.50	.13	.24	.18			2.49	.76	.17	.51	.10				2.96				1.44	
PUEHU RIDGE 1040	A	6.19											.06																				
PUNH 1013	A	10.15	.03	.13		.20	.06	.02	.32	.13			.39	.10	.07	.09	.09			.44	.71	.04	.06				1.41	.07	.46	2.55	.98		
WAIHANA 930	A	4.74	.01	.03		.08							.26	.03	.01					.13	.10	.07	.13				.20	.01	.16	2.23	.82		
WAIHAI LOWER 1054	A	22.00	.16	.31	.08	.21	.11	.41	.30	.46	.91		.34	.25	.16		.44	.14	.38	.28	.71	.69	.24	.41	.29	.67	.28	.84	.38	2.09	.86	1.74	
WAIHAI UPPER 1052	A	24.27	.17	.48	.24	.16	.09	.22	.11	.64	1.15		.51	.37	.08	.52	.11	.42	.49	.96	.29	.14	.47	.33	.78	.38	.79	.43	2.21	.09	1.29	4.83	1.68
WAIHANA 943	A	3.88																															
WAILUA KAI 1065	A	10.70	.02	.13		.24	.16	.02	.12	.26			.26	.05	.13	.02	.05			2.98	.21	.02	.19				.91	.06	.22	4.27	.38	1.59	
WAIHANA 947	A	3.97																															
WEST LAHAI 931	A	4.82	.03	.06		.22		.04	.46	.13			.36	.10	.04	.02				.20	.17	.12	.14	.01			.25	.06	.14	1.61	.66		
ISLAND OF OAHU																																	
ALOMA STADIUM-HALAMA	A		.20	.02	.05			.01		.01			.12	.02		.01				.54		.01	.05				.85			.32	.08		
BETERTANIA PUMPING STA	A		.58					.01					.04	.03			.10						.02										
B. U. LAIE 903.1	A	5.66		.05	.26		.10	.19	.48																								
CAMPBELL IND PK 702.5	A	.75																															
COCONUT ISLAND 840.1	A			.06			.12	.16					.06	.04	.03	.01	.24			10	.01	1	.09	.01				.13		.04		.58	
EWAL PLANTATION 741	A		.02			.01																											
HOKULU OBSERV 702.2	R	.64																															
HOKULU WSD AP 703	A	.78	.02			.01						.01								.01													
KAENA POINT 841.3	A	.80	.01	.01	.02			.05	.02	.02		.04		.05	.01	.03	.01			.01	.04						.03	.05	.04	.03	.03		
KAHANA 883	A	22.01				5.65							2.46							4.05								9.85					
KALIHI RES SITE 777	R	15.64	.64	.10	.52	.06	1.06	.46	.02	.04	.10	.10	.14	.24	.16	1.16	1.30	.12	.10	.12	.04	.38	1.38	.24	.28	1.30	2.10	.40	1.94	.42	.24	.22	
KANEHUE MAUKA 781	A	7.68	.09	.06	.29		.30	.39	.02	.04	.10	.10	.14	.24	.16	1.16	1.30	.12	.10	.12	.04	.38	1.38	.24	.28	1.30	2.10</						

DAILY PRECIPITATION

HAWAII AND PACIFIC
MAY 1980

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
MAAJUEA 676	A	1.02													.05																	.97		
MAIAKAKUA 685	A	3.89														.02												.79					3.08	
ISLAND OF MAUI																																		
AJUAHAI 252	A																															22.00		
HALEKUA 477	A	22.00																															1.17	
HALEKUALA EXP FARM 434	A	7.92	7.47	6.7	36		.08	.81	15		.03	12	49			.05	.09	.43	.03		.01	.03	.04	.05	.65	.01	.02	.03	.05		.06	.01	.01	6.10
HALEKUALA RANCH 432	A	2.05	1.05													.20								.38										1.28
HALEKUALA R S 338	A	1.48	10	.01	.04											.05		.49	1	.04	.01	.01			.29	1	.03	.02	.03	.02				
HAHIMAHUE 421	A	4.15	1.02	55				.71	.08		.03	.07	.11			.03	.19						.03	.12	.03						.04		1.14	
HAMAKAPOA 485	A	5.23	85	50	17		.06	.08	.12		.18	10	27		.06	.05	.21	.31	.09	.14		.15	.05	.12	.40	.19	.28	.11	.02	.03			.69	
HANA AIRPORT 355	A	6.16	43	07	06			.35	.39		.35	28	24		.05	.05	.11	.78	.03	.29		.29	.09	.10	.02	.62	.25	.18	.08		.01	.04	.99	
HANA LA CABIN 259 S	A	1.81				.74			.03														.65			.39							13.10	
HONOKOHU 480	A	13.10																																
HONOKOHU 493	A	6.37	70	21			.80	.07		.12		.23			.60	.30	.25	.21		.40	.20		.35	.18	.15	.23	.12		.65	.08		.07	.45	
HONGUA FIELD 49 494	A	5.49																															5.49	
HONOHU GULCH 341	A	6.10																															6.10	
KANAPALI AP 453 I	A	1.61	35	12	.05		.10	.02			.02	.07			.02	.04	.03						.07			.01		.02					.27	.42
KAHOMA INTAKE 374	A	4.00																															4.00	
KAHULUI WSO 398 AP	R	5.3	.09	.03		1	1			.03	.04	.04		.05	.01	.01				1	1		.10	1	1					.01			1.12	
KAILIILI 436	A	11.03																															11.03	
KAILUA 446	A	9.85	1.33	54			.52	.54		.11	.22	.31			.49	1.37	.19	.10		.48			.46	.59	.16	.63	.04		.18	.02	.04		1.33	
KADAILA INTAKE 375	A	3.04																																
KAHUA 410	A	1.02	.33	.02			.07			.01	.05	.06																					.36	
KEANAE 346	A	18.90																															18.90	
KEANAE BEACH 260.2	A	3.59							.01																								3.58	
KIHEI 311	A	8.80	12	.22	.35		.20			.32	.48	.52		.28	.36	.43				.51	.49	.62	.54	.72		.20		.32	.15	.18	.26	.38	.41	.44
KIPAHULU 258	A	104.00																																104.00
KUKUI 380	A	104.00																																104.00
KULA BRANCH STN 324.5	A	2.29																															2.29	
KULA HOSPITAL 267	A	3.92	.01		.45												.04	.13	.01		.10								.35	.02	.17	.01	.06	.03
LAHAINA 361	A	1.74																																1.74
LAUNIPUO INTAKE 376	A	3.36																																3.36
LAUNIPUO VILLAGE 372	A	1.13																																1.13
LUPU UPPER 442	A	11.00																																11.00
MAHINAHINA 466	A	4.31	1.12	.49			.37								.67	.22		.30					.20		.06				.16		.02		4.23	
MOAUEA 475	A	4.4																																4.4
MAKALELE FIELD 60 497	A	6.02					1.11								.72																			6.02
OLINDA 332	A	5.81								2	10																							5.81
OLOWALU 296 I	A	1.54																																1.54
PAKAE 350	A	18.90	4.20	1.01			1.81		.96		1	77		1.41		2.30		1.13					1.32	.95		1.41			.25	.25		.35	.15	.44
PAIA 406	A	2.32		.50	.25	.05	.03	.03		.10	.02	.12		.01	.01	.12	.13			.01	.06	.12							.10				.06	1.00
PANILEI HULU 259.2	A	11.00																																11.00
POHAKA BRIDGE 307.2	A	1.56	.02		.11																													1.56
POLIPOLI SPRINGS 267.2	A	1.50																																1.50
PUDOHAKA 2 343	A	97.20		.73	.20																													97.20
PUNENE 396	A	.29																																.29
SPRECKELSVILLE 400.2	A	1.13		.28	.07	.01		.02	.01	.09		.04		.04		.02	.05																	1.13
TWIN GATES 261.3	A	1.13																																1.13
UKULELE 333	A	3.24																																3.24
UKUMENAE 301	A	1.15																																1.15
ULUPALAKUA RANCH 250	A	1.16																																1.16
WAIPIULU 364	A	1.25	.03	.14		.05				.05	.02			.08	.24																			1.25
WAIERU CAMP 484	A	1.25	.03	.14		.05				.05	.02			.08	.24																			1.25
WAIHEE VALLEY 482	A	1.25	.03	.14		.05				.05	.02			.08	.24																			1.25
WAIKAMOI 449	A	13.30		.20	.09	.34		.09		.07	.15	.05		.11	.42		.12	.03	.19		.34	.03	.09											13.30
WAILUKU 386	A	6.4	.08	.01			.06		.01					.08	.04								.02	.09										6.4
WAIOPAI RANCH 256	A	1.78																																1.78

DAILY PRECIPITATION

HAWAII AND PACIFIC
MAY 1980

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
PAHALA 21	A	2.16						.03	1					.06			14	11						.01		.04		.16	1	.26		1.35	
PAHOA 65			.29	.55				.77	.85	.21	.49	.55		.90	.25	.10	.62			1.67	.48	.15	.65	.41			.75	.30	.28	.15	.20		
PAPAIOU 144.1			.50	.16				.49	.80	.10	.25	.23		.67	.79	.11	.26			1.02	.13	.36	.65	.12			.60	.14	.12	.05	.05		
PAPAIOU MAUKA 140.1	A	13.16						4.20						3.13						3.33								2.50					
PIIHONUA 89	A																																
PIUKOHOLA HEIAU 98.1		.86						.07																		.31		.02	.18		.08	.02	.18
PUU LEHUA 73	A	1.60																														1.60	
PUUHONUA-O-HONAUNAU																																	
S GLENWOOD		14.18				68	1.30	.65		.30	.97	.09	.22	.42	1.52		.33	.43	1.40	.12	.03												
SOUTH KONA 2.31		.73	.11		.06		.02				.02		.10	.04		.09	.06				.83	.41	.54	.40	.10	.44	.35	.64	.04	.19	.35	.35	
UPOLU POINT USCG 159.2		2.96	.30	.50	.17			12	.11	.10			.15	.20	.02	.02	.45	.09	.06		.12	.03	.08	1			.08	1			.21		
WAIKAE SCD 88.2		14.22	.60	.82	.84		.18	.38	1.18		.15	.20	.47			.01	.20	.73	1.01	.12		.07	.59	.41	.32	.27	.26	.04	.29	.72	.50	.53	
WAIKALOA-BOIS CAS 95.8		2.70		.02						.03					.01	.05							.05	.76				1.73				.02	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
MAY
1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
AASUPOU	34.14	T	T	58	10	03	T	2.77	2.80	5.80	.95	.17	5.00	.70	.20	10	1.91	.26	2.34	1.16	.02	.45		.07	1.20	.73	3.12	.36	.55	.08	.85	1.84
AFONO	30.33		.01	33	08	.01	.10	2.19	1.77	5.92	1.47	.07	1.45	2.10	1.75	12	1.14	.34	2.30	.76	T	1.67	.11	.07	.30	.31	2.09	.48	.11	1.71	1.58	
FALEASAO VILLAGE	25.65	03	T	18	04		.84	3.86	1.79	1.71	.10	.23	4.90	2.45	.85	.05		.52	.26	.18	.03	.67	1.02	.04	.35	.74	.58	.06	.71	.58	.25	2.63
JOHNSTON IS. WSO AP	1.02	T									T		T		.06	T		.05	.01				.23	.02	T	T				.26	.05	
MIDWAY SAND ISLAND	.41						T	.55	.04	.09	.07																					
MALEI OA	21.36	T	.02	08	T	.04	.37	3.33	.40	4.42	52	3.56	.56	.80	.09	1.02	.46	.51	1.13	.44	.06	.06			.91	.32	1.10	.13	.49	.06	.43	.05
PAGO PAGO WSO AP	19.50	T	.35	.07	T	T	.27	2.28	1.63	1.88	.34	3.32	.57	.96	.01	2.02	.27	.24	.73	.22	.15	.01		T	.79	.02	2.15	.20	T	.26	.75	.01
WESTERN PACIFIC ISLANDS																																
NORTH OF 12° N																																
AGAT	8.73		.15							10	.40		1.30	.10	.23		.70	.30	.87	1.26	.10	.50		.27	.10	.50	.50	.70		.65		
ANDERSEN AFB GUAM	11.96	T		.22	04	.01	.02		.35	.39	.10		.05	.79	.20	T	.10	.36	2.98	.85	1.49	.64	.02	.08	.70	.24	.27	1.59	.26	.08	.07	.06
CLARK AFB GUAM	13.76		.50				.68	.24	.64	1.60	.24	.47	.70	.10	.04	1.40	.31	.76	.93	.15	.10	.10		2.23	.40	1.01	.06	.30	.80			
DEDEO																																
GUAM NAS																																
GUAM WSO	8.60	.01	.19	.07	.03	.02	.36	.47	.64	.08	.47	.17		.90	.20	.09	.61	.86	.29	.89	.21	.18	1.27	.30	.19	.60	.14	T	.26		T	
INARAJAN AG STN	10.75	.23	.26	.10	.36	.73	.51	.25	.42			1.05		.16			.12			.16			.46	.56		.46	.13	.40	.81	.96	.18	2.16
INARAJAN - NASA	9.32	.45	.14	.05	.01	.02	.21	.42		.01	1.40	1.10		.16		.10	.31	.98	1.05	.11	.40	.25	.28	.37	.22	.91	.19	.01	.10	.07		
MANGILAO	8.26	.04	T	.17	.40	.10	.03	.11	.40	.60	.50	1.24	.41			.25	.72	.09	.10	.20	.12	.07	.47	.29	1.10	.81	T	.01	.03			
SATAVAN CORAN																																
UMATAE																																
WAKE ISLAND WSO AP	1.50	T	.02		T	.02				.03	.04			.22	T	T				.02			.08			.01	.03	.09	.90	.02	.02	
YIGO	19.88		.31		10			.22	.60	1.80	.10	.80	.41	.30	.40		.60	1.24	1.07	1.13	1.05	1.10	1.15	2.00	2.76	1.20	.50	.84	.20			
CAROLINE AND MARSHALL ISLANDS																																
FAKAOFO I. ULITHI ATOLL																																
KAPINGAMARANGI ATOLL																																
KOROR WSO	10.02	.22	.08	.01	.27	.38	.54	3.08	.04	.26	.22	.20	.01	.02	.07	.22	.05	.19	.55	.17	.26	1.44		T		.27	.74		.37	.03	T	.33
KWAJALEIN MISSILE RGN	26.86	.30	3.90	.13	1.43	.48	7.28	T	1.55					T	.02	.10	.26	8.35	.03	1.09	.40	.02	T	.03	.54	.01	T		.31	.31	T	.32
LELE I. KOSRAE																																
MAJURO WSO AP	11.34	T	.05	1.20	1.29	T	1.55	.01	.01	.07		.06	.02	.16		1.72	.05	.03	.10	.43	.67	.52	.07	.01	.57	.65	.44	.31	.01	.95	.39	T
METALANIH	37.84	2.42	.61		4.94	.07	.80	6.21	3.75	1.09	.23	.78	.50	.15	4.20	1.97	.13	.07	2.01	.63	.06	T	1.52	.20	.14	.58	1.75	.10	2.21	.28	.22	.22
PONAPE WSO	38.43	1.39	.33	.76	.27	.11	3.10	4.01	4.33	.56	1.10	2.28	.56	.02	4.42	1.22	.08	.06	1.88	1.10	.08	1.09	.66	.67	.12	.43	2.80	.02	3.07	.03	.48	.80
SATAVAN ATOLL																																
TRUK MOEN I. WSO AP	18.26	.04	.06	.03	.67	1.33		T		.04	.48	3.77	1.29	T	1.40		.04	3.03	T	.52	1.62	.29	.08	.70	.31	.30	1.75		.03	.03	.07	.38
WOLEAI ATOLL																																
YAP WSO AP	10.57	T	.25		.10	.01	.11	.23	.08	1.65	.19	.01	.47	.02	.24	.37	.01	.18				T	5.67	T		.29	.16	T	.01	T		.52

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MAY 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	67 53	73 52	65 55	69 54	70 47	70 47	68 55	68 56	66 58	67 55	69 55	69 54	70 54	76 48	72 54	73 52	74 55	71 56	68 55	65 55	69 55	71 55	70 54	71 56	69 53	73 54	70 54	70 55	65 56	65 57	70 55	69.5 54.0	
KILAUEA POINT 1133	MAX MIN	80 67	82 67		83 65	82 65	83 65	81 68	81 69		81 65	80 67	80 65	80 68	81 69		84 69			76 63	79 63	80 65	81 64			85 71		81 70	80 71	85 68				
LIHUE WSO AP 1020.1	MAX MIN	77 68	82 68	79 68	82 69	82 68	83 71	81 69	80 69	80 70	82 70	81 72	81 71	82 70	83 74	84 74	82 69	83 68	80 70	78 68	80 70	81 68	82 74	81 69	82 70	80 71	81 75	82 70	83 71	78 68	81 69	70.0		
NIU RIDGE 1035	MAX MIN	87 63	86 63	89 65	85 64	87 63	83 65	89 64	85 64		87 62	86 63	86 64	85 66	83 66	83 66	89 67	87 65	82 66	87 66	82 66	84 66	87 66	82 66	87 66	86 66	87 66	86 66	81 66	80 66	79 66	85.0 65.5		
WAIHI LOWER 1054	MAX MIN	77 65	73 65	87 65	79 64	78 65	77 66	79 65	78 65	77 66	77 66	78 66	79 66	77 65	79 65	79 67	78 66	79 67	78 66	79 66	78 66	79 65	78 65	79 66	80 63	79 67	77 68	79 67	80 68	77 61	78.2 65.7			
WAIIEA 947	MAX MIN	83 64	85 65	85 64	86 68	83 65	86 67	88 71	86 70	86 70	85 65	83 68	85 67	86 66	87 66	85 67	88 68	85 72	86 70	89 67	85 67	85 67	86 69	87 71	84 69	85 69	87 69	85 69	87 65	83 71	82 69	88 68	85.5 67.9	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	81 69	79 69	82 69	81 69	75 70	84 70	82 70	81 70	82 70		81 70	82 69	81 70	80 70	80 71			85 70		83 71	82 70	86 71			91 70			70	84 72	86 70	87 70	82.5 70.0	
B Y U LAIE 903.1	MAX MIN	79 71	75 71	80 70	74 69	79 69	78 70	78 72	79 72	80 70	80 70	81 70	80 69	82 69	80 70	80 72	81 73	81 70	80 68	81 74	77 70	80 72	77 72	79 72	80 67	80 74	80 75	80 71	84 70	83 68	79.5 70.8			
HONOLULU OBSERV 702.2	MAX MIN	84 67	85 63	87 67	87 64	86 68	88 65	88 72	86 70	85 71	87 69	87 66	88 71	85 65	88 67	86 67	88 69	83 72	80 71	88 70	88 71	83 70	85 68	85 69	86 70	85 68	85 67	88 69	84 69	85 71	85 69	85 69	86.1 68.3	
HONOLULU WSO AP 703	MAX MIN	83 69	86 71	83 70	85 69	86 70	86 71	85 73	83 72	85 73	86 71	86 72	86 72	86 67	86 72	85 71	87 74	86 71	86 73	86 73	85 72	85 72	85 72	84 72	86 71	86 72	86 72	84 72	85 71	84 71	82 71	85.1 71.4		
KANEIHE MAUKA 781	MAX MIN	79 71	77 65	82 70	78 69	79 70	81 71	82 72	79 74	81 74	82 74	82 74	81 73	82 74	83 74	80 72	85 71	83 72	83 72	82 73	83 73	79 72	81 75	79 73	84 75	86 74	82 75	87 76	86 74	80 76	80 73	81.0 71.7		
KII-KAHUKU 911	MAX MIN	79 69	79 68	80 68	76 68	79 68	81 68	81 69	81 70	80 70	80 69	81 70	81 68	80 68	82 71	82 71	83 70	83 72	81 69	81 63	81 69	81 65	80 71	82 67	82 71	82 67	82 69	82 71	82 69	81 69	86 67	83 67	81.1 68.9	
MANOA LYON ARBORETUM	MAX MIN	79 66	73 67	81 67	73 65	78 66	81 66	78 68	75 67	73 68	74 67	75 67	79 67	75 66	81 68	81 68	75 68	84 69	82 70	80 70	80 68	77 66	75 68	84 67	86 66	85 66	85 68	82 68	80 67	84 68	80 67	79.1 67.3		
OPAEULA 870	MAX MIN	75 66	76 66	72 66	75 66	77 65	79 66	84 66	84 65	80 65	77 66	77 65	80 65	82 65	82 65	82 65	80 67	79 64	76 69	82 67	82 65	84 66	84 65	84 65	82 65	81 65	85 65	85 65	84 64	85 67	82 66	80.5 65.9		
PUU MANAWAHUA 725.6	MAX MIN	74 62	77 62	77 64	76 63	78 64	78 64	73 63	75 64	75 63	78 63	78 63	76 63	79 63	78 66	76 65	78 63	78 66	78 64	78 64	78 63	79 65	75 64	81 64	78 65	79 65	79 65	75 65	75 66	73 64	76.9 63.4			
WAIALUA 847	MAX MIN	81 67	80 62	80 64	76 62	80 66	87 64	84 72	83 71	82 66	82 66	82 64	85 66	87 64	85 65	87 64	84 62	82 64	84 65	80 66	85 65	80 65	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	84 66	83.4 65.6		
WAIKIKI 717.2	MAX MIN	84 68	84 68	86 66	83 63	86 68	88 70	88 72	86 72	85 72	87 72	87 72	85 71	86 72	87 72	87 72	88 73	86 72	87 71	85 71	87 70	87 70	86 70	87 70	86 70	87 70	87 70	87 70	86 70	85 69	86.2 70.6			
WAIMANALO EXP FM 795.1	MAX MIN	80 69	79 69	80 68	78 70	79 69	80 71	81 72	80 70	78 70	79 71	80 72	81 72	80 72	82 71	80 71	85 73	83 73	82 73	82 71	79 70	82 72	81 68	82 67	84 68	81 72	82 73	84 71	82 69	82 68	84 68	81.0 70.5		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	82 64	79 66	78 69	82 66	81 66	85 68	84 70	82 68	81 69	81 69	82 68	81 69	82 68	83 68	86 69	84 69	86 66	84 66	84 68	82 70	83 69	82 68	85 68	85 68	82 68	85 68	84 68	84 68	87 65	83 69	79 67	82 67	82.8 67.9
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	76 65	75 64	80 65	80 64	79 62	80 65	81 65	78 65	79 63	80 63	81 65	82 65	80 66	81 66	80 65	80 64	81 62	83 62	83 64	81 64	83 65	82 66	84 67	80 66	82 67	79 67	78 66	75 63	82 65	80 64	76 64	79.8 64.5	
LANAI CITY 672	MAX MIN	70 62	68 62	73 65	73 65	75 61	75 62	77 63	75 63	77 61	77 63	74 65	73 62	77 63	77 61	79 63	77 63	78 64	78 64	76 63	75 63	77 63	78 62	77 64	77 65	73 64	77 63	77 62	77 62	73 63	74 63	72 61	75.1 62.9	
ISLAND OF MAUI																																		
HALEAKALA R S 338	MAX MIN	66 43	67 49	66 44	67 41	64 41	62 43	64 48	62 46	68 44	65 47	64 42	63 44	60 45	64 50	63 48	64 47	66 49	65 48	66 44	63 43	65 46	69 46	63 46	65 46	65 46	62 45	64 44	65 43	66 44	64 48	64.5 45.6		
HANA AIRPORT 355	MAX MIN	80 69	78 69	80 70	81 77	80 76	82 69	83 70	80 70	81 69	83 68	83 68	81 68	82 69	83 70	83 69	84 71	84 75	82 70	83 71	81 75	83 70	83 71	83 75	83 70	85 74	84 77	84 74	83 78	84 72	85 71	85 70	82.3 71.6	
KAANAPALI AP 453.1	MAX MIN	79 68	75 67	81 70	83 68	81 65	85 67	86 69	86 69	83 71	86 67	84 67	83 68	82 68	84 61	88 68	88 71	88 71	87 68	84 70	84 65	86 67	86 68	84 74	86 69	87 67	87 69	87 67	87 66	88 69	88 70	88 70	81.8 68.1	
KAHULUI WSO 398 AP	MAX MIN	81 71	83 71	85 71	82 68	87 67	87 70	84 73	84 73	86 73	86 71	86 72	86 72	85 69	88 71	88 72	90 74	89 73	87 72	85 72	87 72	87 73	88 73	89 73	88 73	91 70	90 69	90 69	90 69	90 69	91 75	89 73	86.8 71.0	
KAILUA 446	MAX MIN	71 64	77 65	77 65	77 65	77 64	78 67	77 63	76 65	74 65	75 65	74 65	75 66	77 66	78 67	78 67	76 64	75 63	75 63	77 63	77 65	77 67	77 68	76 68	77 68	77 68	77 68	77 						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MAY 1980

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																		
KILA HOSPITAL 267	MAX MIN	70 55	71 55	70 53	72 54	72 53	70 58	74 58	73 57	71 55	72 55	72 57	71 56	73 54	70 55	72 55	70 56	72 57	73 55	73 54	73 54	72 55	72 55	71 58	70 56	71 56	70 56	72 57	75 60	71 60	73 58	71.7 55.9		
LAHAINA 161	MAX MIN	85 66	88 68	87 69	88 65	88 69	86 67	88 67	87 66	87 67	87 69	89 68	89 67	88 68	86 65	86 66	89 69	87 69	89 69	89 67	87 71	86 66	87 68	87 68	83 73	86 72	88 72	87 68	88 67	87 69	87 69	84 68	87.1 68.1	
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	68 54	68 53	71 55	70 51	72 53	74 57	65 54	66 53	71 53	70 52	71 51	69 53	70 55	72 53	72 52	75 56	74 56	71 52	71 54	73 53	70 53	71 53	68 54	67 56	70 52	74 57	68 55	71 55	69 50	71 58	70 55	70.4 53.8	
HILO WSO AP 87	MAX MIN	85 70	84 69	84 72	85 70	83 68	86 71	85 70	85 68	84 69	85 69	83 68	76 69	85 69	87 66	86 67	87 67	87 71	86 69	86 70	84 69	85 69	86 70	86 71	84 72	85 69	85 71	86 70	87 69	88 73	87 72	84 72	85.0 69.6	
KAINALIU 21.2	MAX MIN	81 63	77 64	78 63	79 64	79 63	79 63	79 63	79 62	79 63	81 63	80 64	78 63	78 62	79 63	79 62	79 61	78 63	86 66	87 63	86 64	85 64	82 63	82 66	80 66	79 65	80 65	79 65	79 63	78 64	76 65	79 64	79.2 63.7	
KAPOHO BEACH 93.11	MAX MIN	85 67	85 70	84 70	81 70	85 70	86 72	82 68	84 70	85 68	87 68	87 65	83 67	78 67	84 66	86 67	87 69	87 70	86 70	85 71	85 68	82 68	87 69	87 72	88 70	88 69	89 69	89 70	85 70	84 70	86 71	86 74	85.1 69.2	
KE AHOLE PT 68-13	MAX MIN	86 65	90 71	89 70	89 71	87 67	89 63	87 65	87 65	88 70	88 72	88 67	87 67	87 66	88 64	86 66	88 72	88 73	88 72	89 65	86 66	87 66	89 67	90 65	82 74	81 73	88 64	88 67	89 65	89 72	81 74	89 74	87.4 68.1	
KULANI CAMP 79	MAX MIN	62 51	69 50	65 51	64 46	65 56	64 54	51 59	61 65	64 60	64 59	55 51	65 51	48 58	65 57	64 57	67 46	56 56	59 46	64 46	62 59		60 48	65 46	63 52	66 48	66 59		63 50	62 55	65 60	67 47	64.3 52.1	
LALAMILO FLD OFF 191.1	MAX MIN							73 59	73 65	72 60	73 59	76 59	76 58	74 60	76 60	84 60	78 66	78 66	77 56	78 57	77 60	77 58	79 58	83 58	87 66	83 71	80 71	83 62	79 59	83 63	83 63	84 64	78.6	
MAUNA KEA OBS 111.2	MAX MIN				45 34																													
MAUNA LOA SLOPE OBS	MAX MIN	56 39	58 39	57 39	60 39	55 36	53 35	58 41	60 42	56 39	54 38	51 37	51 34	52 32	53 35	55 35	52 36	55 36	56 38	56 34	55 40	51 35	53 37	55 36	53 41	55 40	51 36	47 36	48 36	50 37	51 37	51 37	53.8 37.2	
MOUNTAIN VIEW 91	MAX MIN	75 62	73 63	79 64	77 63	73 62	78 60	76 63	76 61	78 61	76 61	79 60	76 60	70 64	79 59	80 59	81 59	80 62	81 62	81 61	78 61	77 60	74 61	75 62	73 63	78 63	77 62	77 64	76 62	75 61	75 61	80 61	79 64	76.8 61.7
NAALEHU 14	MAX MIN	79 61	78 61	81 63	81 68	80 64	79 65	74 66	78 67	80 67	78 67	79 66	79 64	79 65	78 64	80 64	80 66	78 69	78 68	79 69	80 62	80 64	78 65	79 67	77 67	79 70	77 67	78 65	79 66	78 66	79 69	79 69	78.7 65.8	
OOKALA 221	MAX MIN	78 67	78 66	79 67	79 67	74 67	76 67	78 67	79 68	78 67	77 67	79 66	78 66	76 66	79 69	79 69	80 68	79 70	80 69	80 67	79 67	77 67	80 67	79 68	81 69	81 69	80 70	80 70	82 68	81 67	83 65	79.0 67.7		
OPIHIHALE 2 24.1	MAX MIN	82 60	77 58	77 59	80 59	80 59	81 60	80 59	80 59	84 61	80 61	79 61	80 58	81 58	83 58	84 59	81 62	80 63	80 59	80 59	81 60	79 60	81 58	82 60	81 60	78 63	80 62	81 60	77 62	83 60	81 61	80 60	80.4 60.0	
POUKOHOLA HEIAU 98.1	MAX MIN	89 70	87 68	90 67	89 69	91 69	91 68	88 63	90 61	89 63	88 68	88 67	91 66	90 67	87 66	88 66	87 70	87 70	89 76	91 74	90 70	89 69	89 67	87 69	87 69	86 69	87 69	87 67	88 71	89 70	89 68	88 68	88.6 68.4	
SOUTH KONA 2.31	MAX MIN	73 54	67 55	76 55	77 56	70 60	83 60	70 58	75 58		80 58	81 60	78 57	75 56	81 55	74 55	76 60	79 60	81 60	85 55	84 57	84 58	78 57	86 58	75 59	86 61	79 62	79 59	79 60	76 58	78 60	82 59	78.2 58.0	
UPOLU POINT USCG 159.2	MAX MIN	78 68	79 69	80 68	74 69	79 66	79 69	82 70	80 67	81 69	81 70	81 67	80 67	70 66	81 66	82 68	81 68	81 68	82 69	83 68	82 69	81 69	82 68	84 69	84 72	83 68	84 69	82 71	83 70	84 70	86 73	86 72	81.1 68.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
MAY
1980

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
* * *																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	83 77	84 76	83 76	83 77	83 77	83 72	84 73	84 74	84 77	83 78	83 78	84 77	84 77	85 76	84 74	84 76	85 78	84 78	84 78	85 78	84 78	84 78	85 78	85 78	86 77	85 77	86 77	86 78	86 78	86 78	84 78	84.3 76.7
MIDWAY SAND ISLAND	MAX MIN	78 67	78 67	79 69	79 70	74 68	76 67	78 70	78 68	77 69	79 69	80 70	79 70	79 68	79 68	76 67	77 67	77 68	79 69	77 70	75 68	78 68	76 67	78 67	76 68	79 69	79 70	76 68	76 69	78 70	79 70	77.6 68.4	
PAGO PAGO WSO AP	MAX MIN	87 77	87 75	86 75	89 76	89 75	86 77	82 74	83 75	80 74	81 73	80 73	85 75	81 74	85 74	85 73	84 76	83 76	81 75	87 75	88 73	84 78	83 76	82 76	81 77	84 78	83 75	86 74	86 75	84 76	81 77	81 77	84.0 75.1
* * *																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	85 78	84 78	85 75	85 79	85 79	84 80	83 75	85 77	85 75	84 79	85 77	84 76	85 79	85 77	82 76	78 76	81 77	83 75	83 77	84 78	85 77	81 76	84 77	85 77	81 77	84 75	85 78	84 76	84 78	85 76	86 76	83.8 77.0
CLARK AFB LUZON	MAX MIN																																
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	86 75	87 73	86 73	86 77	87 77	86 76	85 73	86 75	86 75	85 76	86 74	85 73	85 75	84 74	80 74	82 73	85 73	83 73	85 76	86 74	85 74	85 74	85 75	81 75	84 73	86 76	85 73	85 70	86 69	87 70	85.0 74.0	
INARAJAN - NASA	MAX MIN	86 70	87 70	86 69	86 70	87 69	87 69	87 69	87 69	87 69	86 77	86 77	87 77	86 77	87 77	87 77	86 77	86 77	87 77	86 77	86 77	86 77	87 77	86 76	85 77	84 74	87 77	87 76	86 74	88 73	88 72	86.5 75.2	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	87 76	87 73	87 75	86 76	87 74	87 75	88 76	87 75	87 75	89 75	87 75	88 75	87 76	85 76	87 76	86 76	87 73	89 76	88 76	85 71	86 77	89 76	88 75	86 73	89 72	88 70	87 72	86 75	84 74	87 74	86.7 74.6	
* * *																																	
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	90 76	90 76	91 75	91 75	91 77	90 77	85 75	89 76	89 75	89 75	89 77	90 77	88 79	90 76	89 75	88 75	88 75	89 77	91 76	88 75	88 74	88 78	90 78	90 76	85 73	89 73	89 75	92 75	90 76	90 73	89.3 75.6	
KWAJALEIN MISSILE RGN	MAX MIN	86 76	85 74	84 76	86 75	86 75	82 75	86 78	85 75	86 81	85 80	87 79	87 79	87 77	88 78	86 77	81 74	86 78	82 76	83 76	87 78	87 78	86 75	85 75	87 79	85 77	87 78	88 77	87 76	88 80	87 76	85.8 77.0	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	86 79	87 77	84 75	87 74	87 79	86 73	86 77	87 77	87 78	87 79	87 77	88 77	87 77	87 78	86 76	86 78	87 77	87 75	85 74	85 75	87 75	87 74	88 75	86 76	87 75	87 76	87 76	87 75	86 76	88 78	86.6 76.4	
METALANIM	MAX MIN	84 70	89 68	89 68	89 68	89 69	89 70	87 72	83 70	83 67	86 68	88 71	83 69	87 68	89 70	84 68	87 74	89 69	85 74	89 75	90 78	90 75	85 74	87 73	89 75	86 78	83 71	87 74	83 75	89 74	89 77	90 77	87.0 71.9
PONAPE WSO	MAX MIN	84 73	91 75	91 75	91 74	90 75	90 75	86 76	83 74	82 73	86 74	87 76	87 74	90 73	88 74	81 73	88 78	89 75	84 74	88 75	91 74	91 74	83 74	88 72	90 74	87 77	80 73	90 73	80 74	91 74	90 77	90 77	87.3 74.5
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	90 77	89 78	89 78	88 78	82 75	89 75	91 76	87 78	88 78	88 75	81 74	87 74	87 76	84 74	89 77	88 80	83 70	88 79	87 75	84 75	90 77	89 75	90 77	88 78	89 77	85 73	88 77	89 77	88 78	90 78	87.5 76.4	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	88 75	90 74	88 74	89 77	89 78	89 77	89 76	89 75	84 74	88 76	89 78	88 75	87 75	88 76	89 76	86 75	88 76	88 78	88 74	88 73	88 72	83 75	88 77	89 76	88 74	91 75	87 75	88 75	89 75	88 76	85 75	87.9 75.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

DAHU
MAY 1980

STATION	DEPTH (IN)	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
MANOA LYON ARBORETUM	4	MAX MIN	75 71	71 70	75 70	73 71	74 71	76 71	74 73	73 72	72 72	73 72	73 72	73 72	73 70	75 70	76 73	76 74	77 73	77 75	77 74	76 74	74 73	74 73	77 73	77 74	78 74	78 76	78 75	77 75	78 75	77 75	78 76	75.3 72.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
MAY 1980

STATION	DEPTH (IN)	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324.5	4	MAX MIN	70 66	70 67	- -	- -	73 68	72 70	74 70	73 69	72 69	- -	- -	74 70	74 70	73 69	72 70	71 68	- -	- -	75 68	73 70	73 69	71 69	73 69	- -	- -	- -	71 67	70 67	72 69	71 70	-	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MAY 1980

STATION	DAY OF MONTH																															TOTAL OP. AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LINCOLN WSO AP 1020 1	EVAP	.43	.20	.31	.28	.36	.22	.40	.32	.30	.17	.34	.33	.31	.25	.34	.30	.29	.35	.32	.19	.27	.30	.16	.23	.25	.21	.30	.36	.34	.12	8.848
	WIND	222	172	140	188	165	151	222	263	232	210	186	194	253	138	153	156	96	192	244	206	232	237	146	71	62	139	188	181	64	105	58
	MAX	81	78	83	79	81	84	85	80	81	76	83	83	81	83	86	85	89	85	83	80	74	78	87	82	88	90	80	81	82	75	78
	MIN	61	59	61	62	60	64	63	63	64	63	63	63	63	66	63	66	64	65	63	64	63	65	64	64	64	63	66	66	65	62	65
ISLAND OF OAHU																																
HENDRICK OBSERV 702 2	EVAP	.30	.45	.43	.35	.51	.39	.45	.45	.45	.42	.45	.54	.45	.45	.34	.45	.45	.45	.45	.52	.60	.30	.45	.45	.41	.31	.39	.30	.34	.50	13.25
	WIND	43	33	30	29	30	20	36	52	40	35	31	33	39	24	17	19	36	43	40	38	29	27	31	27	29	18	28	26	23	31	30
	MAX	92	91	94	89	93	92	95	90	88	89	93	94	92	95	90	87	95	92	92	95	84	92	92	93	93	95	93	91	90	95	95
	MIN	67	66	66	65	66	67	67	66	66	67	67	67	68	67	68	69	67	68	66	66	60	67	68	69	69	69	69	70	71	70	70

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
MAY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP WIND	.13 233	.60 191	.35 215	.33 185	.43 182	.40 158	.37 184	.27 175	.35 177	.30 191	.30 200	.185	.36 185	.50 190	.31 168	.32 160	.22 169	.40 184	.42 204	.36 189	.34 174	.28 179	.35 134	.22 127	.34 131	.30 107	.36 79	.28 111	- 84	- 50	.30 125	10,518 5026
PAGO PAGO WSO AP	EVAP WIND MAX MIN	.49 124 95 71	.10 49 95 70	.10 29 94 72	.21 28 94 70	.17 27 95 75	.10 28 95 72	- 136 83 74	- 216 84 74	- 197 79 73	- 188 79 72	- 164 80 72	46 87 74	42 85 74	.14 26 94 74	- 36 97 76	103 208 94 73	.05 208 95 75	.05 266 93 74	.18 70 94 74	.19 45 95 74	.22 185 98 75	.22 112 91 74	.23 208 86 75	.08 121 85 75	.12 55 83 75	- 59 95 72	.13 34 90 70	.08 62 90 72	.14 212 81 70	.09 241 81 74	.15 3499 78 73.1	
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP WIND MAX MIN	.28 128 89 69	.26 112 90 69	.18 141 89 71	.38 182 88 72	.30 149 82 71	.20 177 87 73	.25 149 87 72	.27 190 88 70	.03 200 88 70	.26 169 85 70	.14 192 88 71	88 150 86 71	34 200 87 68	.36 206 87 70	.17 216 85 71	.22 208 80 64	.26 260 80 70	.34 212 88 70	.16 111 84 70	.17 135 87 71	.26 197 88 72	.30 143 86 73	.26 70 86 71	.32 141 83 71	.09 133 88 72	.22 107 88 70	.35 60 88 71	.33 81 85 73	.37 37 90 69	.39 31 88 68	.15 47 91 71	8.05 4534 86.7 70.5
• • • CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP WIND MAX MIN	.26 69 94 75	.25 59 95 76	.21 70 86 73	.18 66 92 74	.25 87 89 75	.13 70 91 74	.18 86 94 75	.21 95 91 75	.16 84 85 74	.34 110 88 73	.20 63 88 76	.10 22 93 77	.21 44 90 75	.20 57 88 72	.17 117 86 74	.11 91 86 73	.22 103 95 73	.25 94 98 73	.21 27 98 73	.29 10 96 75	.08 9 96 72	.15 28 87 72	.23 19 95 72	.16 21 94 74	.12 20 93 74	.25 20 97 74	.29 13 96 74	.20 13 91 74	.25 17 94 73	.26 14 89 74	6.328 1616 91.9 74.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MAY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983		0140	02	KOLOA	21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A	0145	01	KAWAIHAU	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A	0240	02	KOLOA	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A	0456	02	KOLOA	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A	0470	02	KOLOA	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIHAU	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAHO 1006	A	1038	02	LIHUE	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2		1140	02	KAUAI	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A	1170	01	KAWAIHAU	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945		2161	03	WAIMEA	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIU LA INTAKE 1050	A	2222	02	LIHUE	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A		2227	01	HANALEI	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIMEA	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHAU	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104		3159	01	KAWAIHAU	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A	3982	01	KAWAIHAU	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944		4272	03	WAIMEA	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANALEI	22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033		4735	03	WAIMEA	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIHAU	22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A	4950	02	KOLOA	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A		5560	02	LIHUE	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A	5575	02	LIHUE	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAHAULEPU 941.1		5710	02	KOLOA	21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A	5864	03	WAIMEA	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R	6565	03	WAIMEA	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115		8155	01	HANALEI	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040		8205	03	WAIMEA	22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A	8941	02	KOLOA	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054		8958	02	LIHUE	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052		8966	02	LIHUE	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943		9253	03	WAIMEA	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947		9629	03	WAIMEA	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A	9955	02	KOLOA	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5		0248	02	OAHU	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807		0300	03	EWA	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741		0507	03	EWA	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19		1308	02	OAHU	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A	1540	03	EWA	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2		1918	03	EWA	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	#	1919	02	HONOLULU	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3		2410	04	WAILUA	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAULOA	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A	2570	01	KOOLAULOA	21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					KAILUA FIRE STATION BOARD OF WTR SUPPLY HAWAII STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC JEFF WALLACE US ARMY SCHOFIELD BRKS NATL WEATHER SERVICE CAPITAL INVESTMENT CO
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910					
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	MID	8A		
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614			8A		
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40			7A		
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725			7A		
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A		8A		
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160			8A		
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	240				C	
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300			6A		NEAL ADAMS CHARLES COOKE LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220			7A		
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A		8A	G	
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20			9A		
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410			WI		
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10			6P		D L GRUBB CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER R E WHITE
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480			10A		
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995			MID		
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640			MID		
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360			8A		
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A		8A		
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315			7A		
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79			8A		UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745			8A	C	
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10			7A		
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A		7A	C	
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10			7A		
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800			MO		
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760			WI		
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A		8A		
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A		7A		U H WAIMANALO EXP FARM U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	
WAIHOLE 892	9593	05	WAIALUA		21 38	158 04	330				C	
WAIHOLE 750	A 9738	03	EWA		21 23	158 01	59			8A		
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100			MID		
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5			7A		ART MONTOYA KALAUAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN)
KALAUAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30			8A		
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12			7A		
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560			VAR		
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	
MAUNALO A 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A		8A		
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550			WI		MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650			WI		U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30			8A		
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A		8A		
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A		7A	C	
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430			MO		
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150			WI		
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000			WM		

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ISLAND OF MAUI												
AUWAHI 252	A	0175	02	HANA	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474		0541	04	LAHAINA	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A	0790	04	LAHAINA	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A		0995	01	MAKAWAO	20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A	0999	01	MAKAWAO	20 50	156 19	1850		VAR			HALEAKALA RANCH CO
HALEAKALA R S 338		1004	02	MAKAWAO	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A	1075	01	MAKAWAO	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485		1086	01	MAKAWAO	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355		1125	01	HANA	20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A	1882	04	LAHAINA	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A	1887	04	LAHAINA	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A	1914	04	LAHAINA	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A	1935	01	MAKAWAO	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1		2307	04	LAHAINA	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A	2552	04	LAHAINA	20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A	2630	01	MAKAWAO	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446		2679	01	MAKAWAO	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAAULA INTAKE 375	A	3433	04	LAHAINA	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259		3576	02	HANA	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410		3910	03	MAKAWAO	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A	4091	01	HANA	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311		4489	03	WAILUKU	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258		4634	01	HANA	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A	4887	04	LAHAINA	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5		5000	02	MAKAWAO	20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH C
KULA HOSPITAL 267		5006	02	MAKAWAO	20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361		5177	04	LAHAINA	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A	5665	01	MAKAWAO	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A	5715	04	LAHAINA	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A	6521	04	LAHAINA	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A	6645	04	LAHAINA	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A	7040	01	MAKAWAO	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1		7059	04	LAHAINA	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A	7194	01	HANA	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406		7566	01	WAILUKU	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A	7674	02	HANA	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6		7952	01	MAUI	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMO A 2 343	A	8336	01	HANA	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396		8543	03	WAILUKU	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A	8553	01	HANA	20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2		8688	03	WAILUKU	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A	8742	03	MAKAWAO	20 46	156 23	1310					KAONOLU RANCH
UKULELE 333	A	8744	01	MAKAWAO	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A	8750	04	LAHAINA	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A	8955	04	LAHAINA	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A	9275	03	WAILUKU	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A	9315	04	WAILUKU	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A	9332	01	HANA	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336		9335	01	MAKAWAO	20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A	9376	03	WAILUKU	20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A	9460	01	HANA	20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A	9484	03	WAILUKU	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A	9765	02	HANA	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A	0040	05	N KONA	19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A	0150	02	HILO	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214		0840	01	HAMAKUA	20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID			NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		VAR			CLOSED 04/30/80
HONANUNA 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		VAR			CLOSED 04/30/80
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		VAR			CLOSED 04/30/80
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIHAE RANCH
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			CLOSED 4/15/80
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT 68-13	3910	04	N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30					FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615	3P				STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	A 5761	02	HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHUA 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUULO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUAN SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	A 7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MAY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKEA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST
CLOSED STATIONS												
ISLAND OF HAWAII												
HOLUALOA 70	A 1557	04	N KONA		19 38	155 55	3220		VAR			CLOSED 04/30/80
HONUAULA 71	A 2047	04	N KONA		19 40	155 53	6250		VAR			CLOSED 04/30/80
HUALALAI 72	A 2151	04	N KONA		19 42	155 52	8190		VAR			CLOSED 04/30/80
KAMUELA 192.2	3077	01	S KOHALA		20 01	155 40	2670	6A	6A			CLOSED 4/15/80

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
MAY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265					MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60					USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210					FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43					TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:

	Soil Type	Soil Cover	Degree of Slope
Kii-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

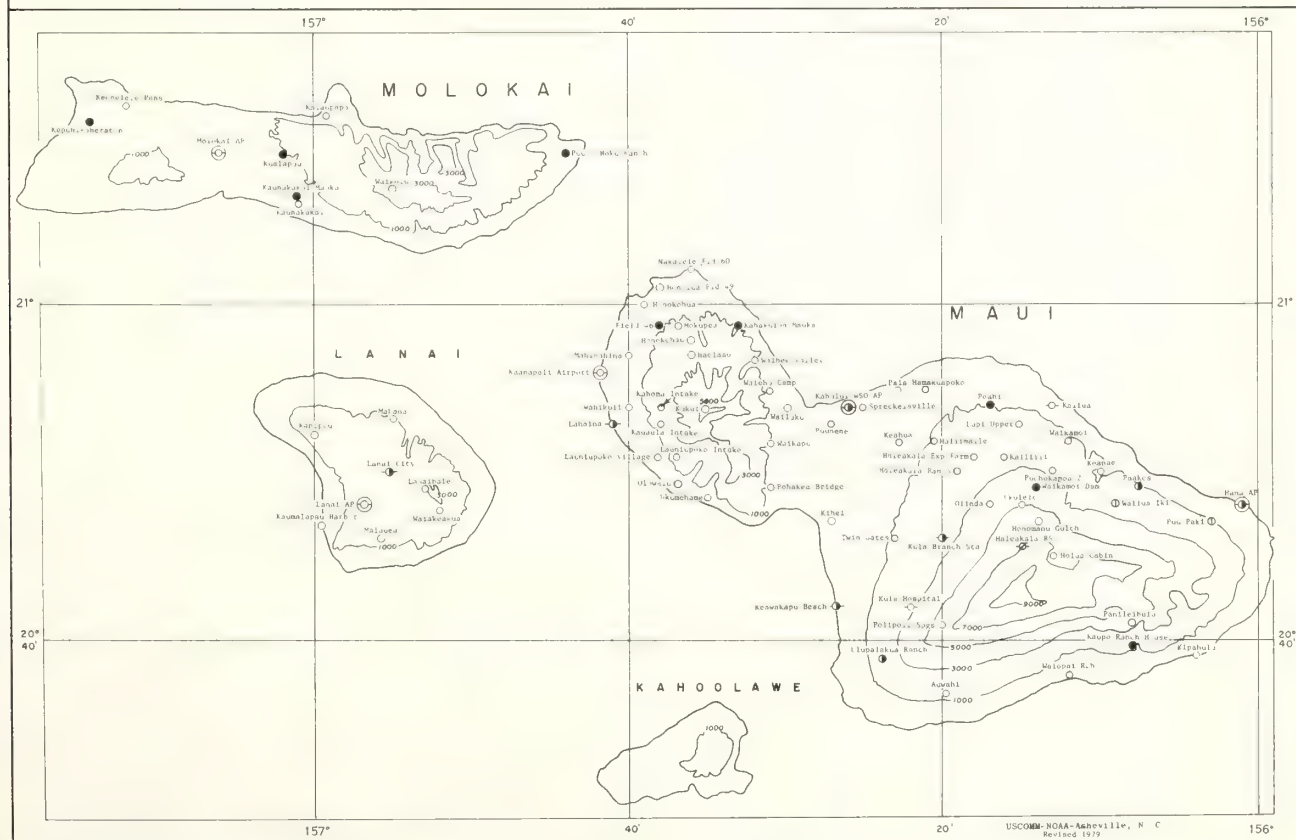
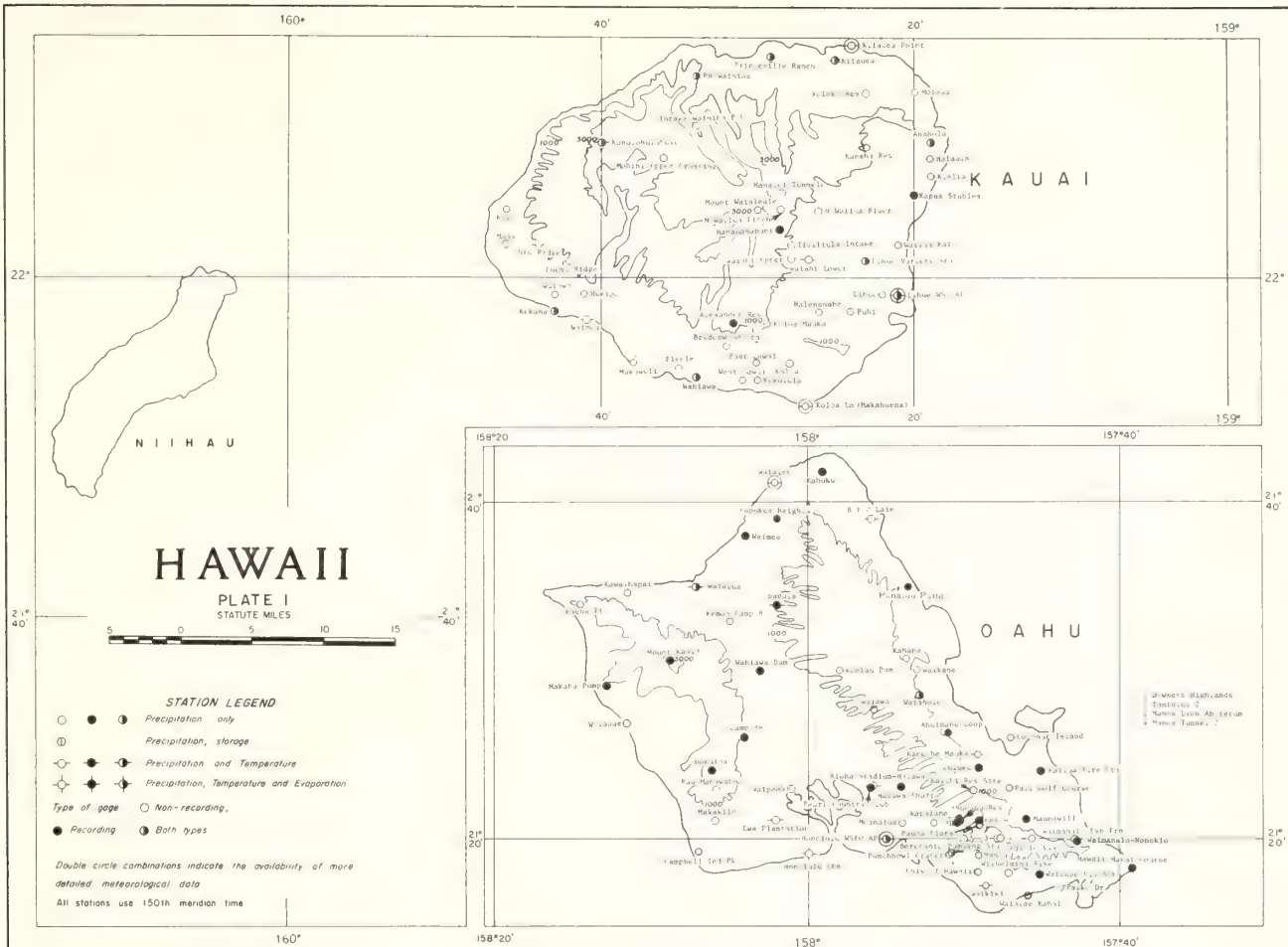
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

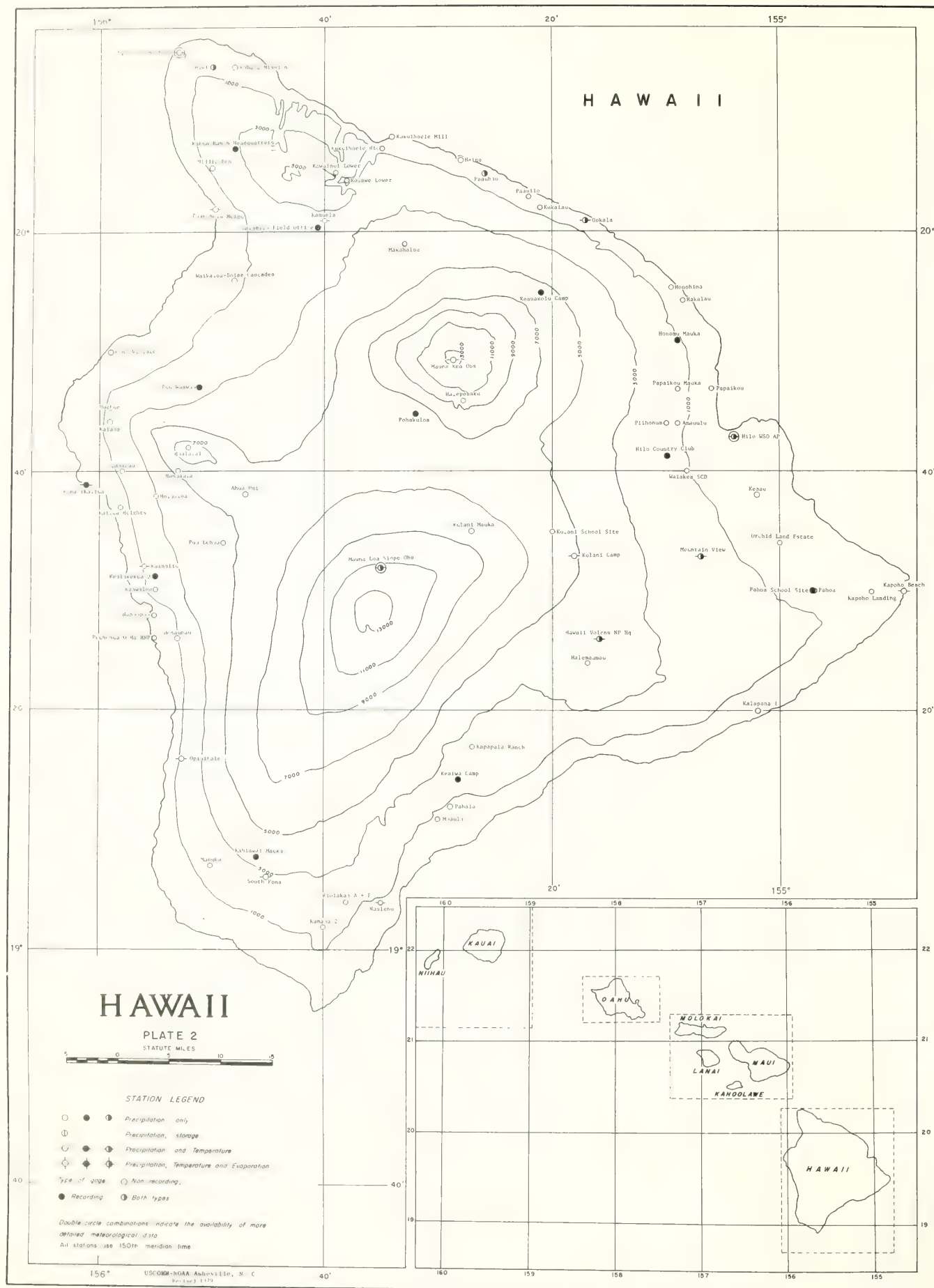
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

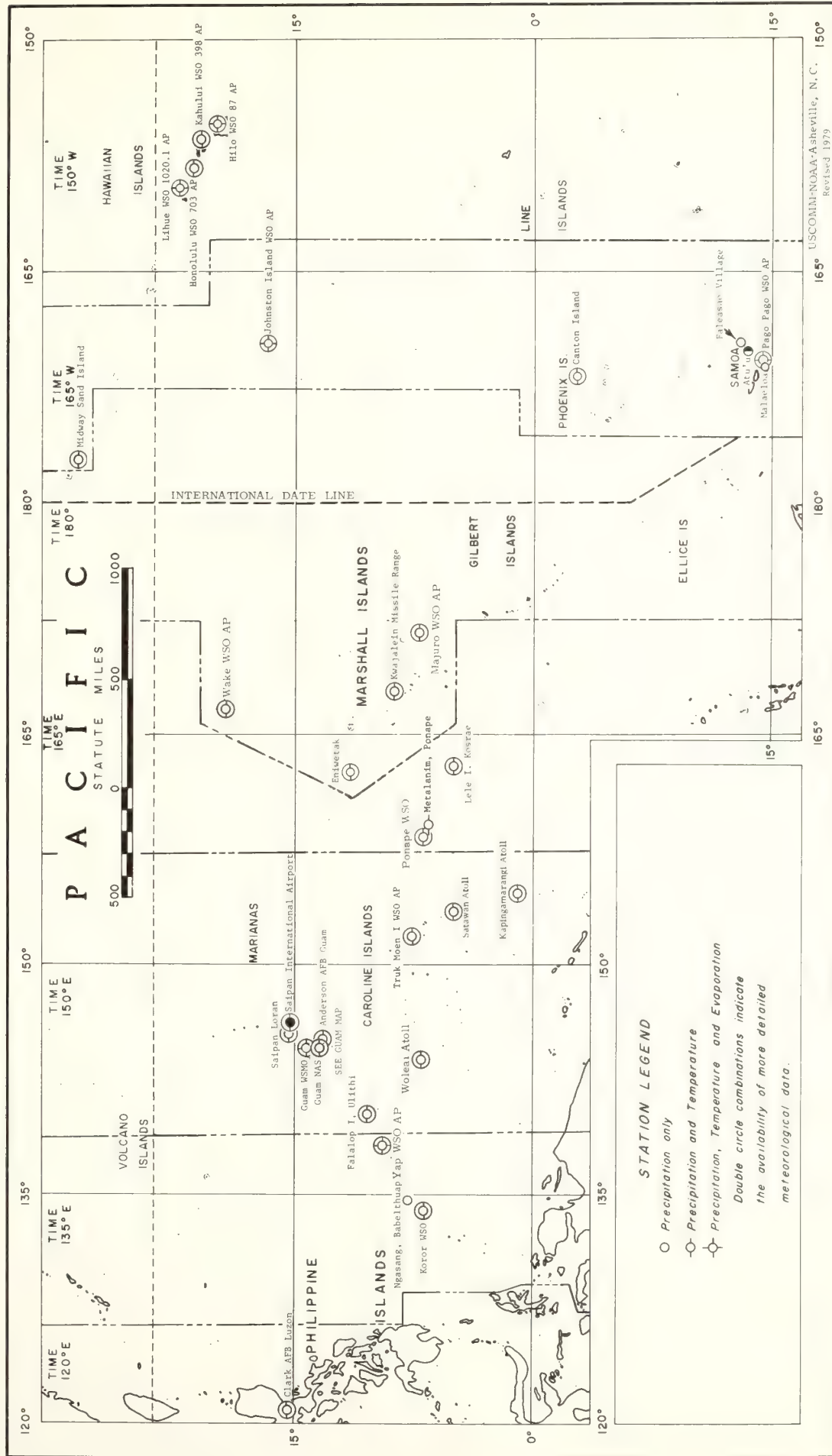
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

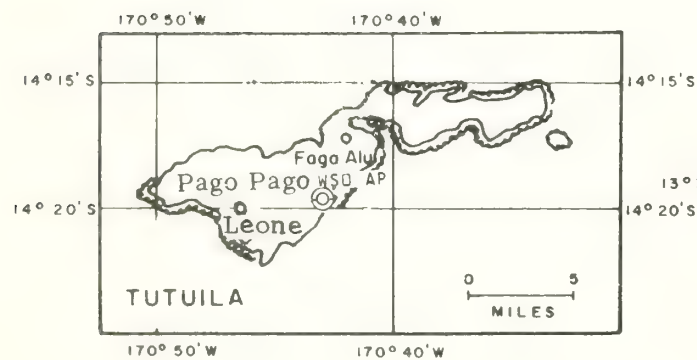
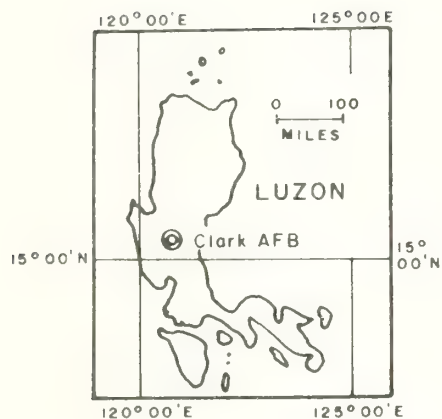
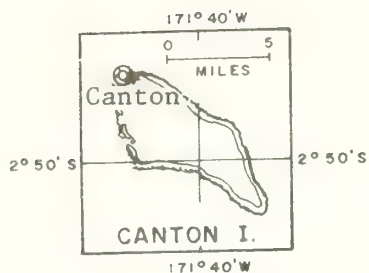
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

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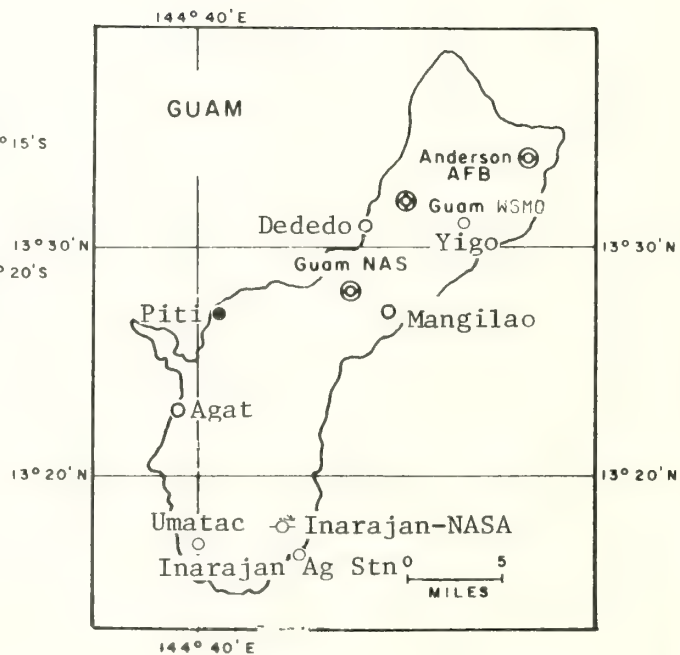


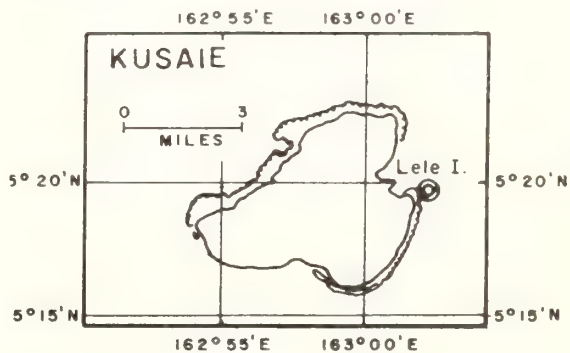
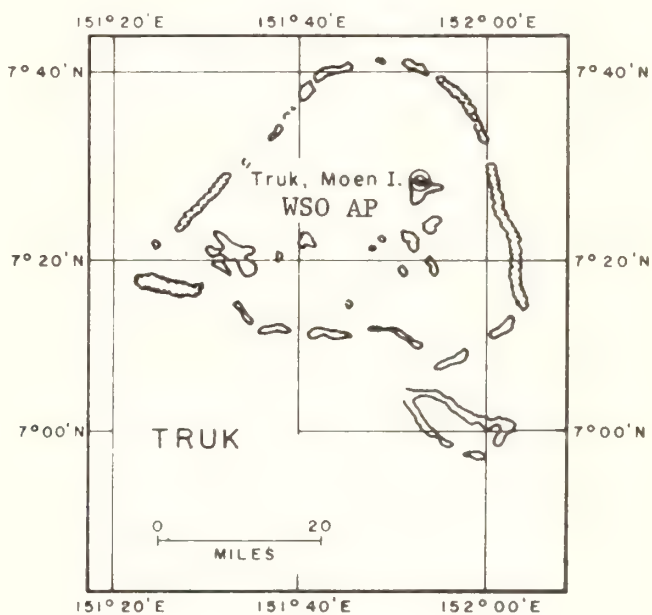
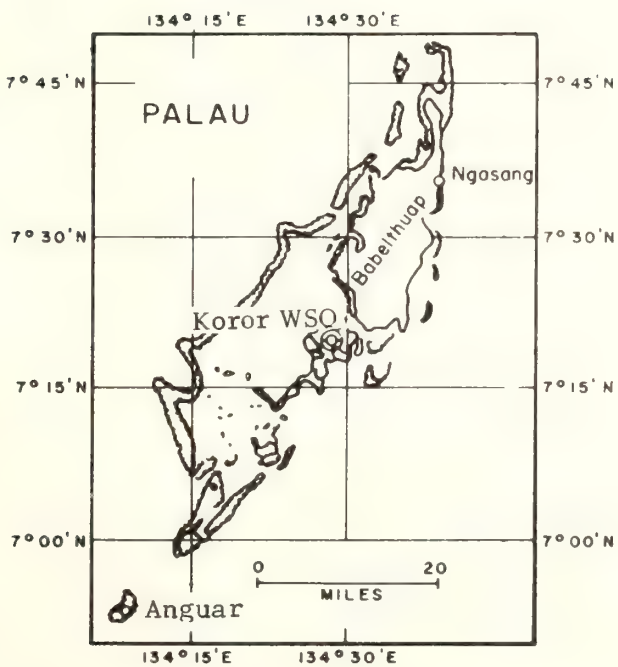
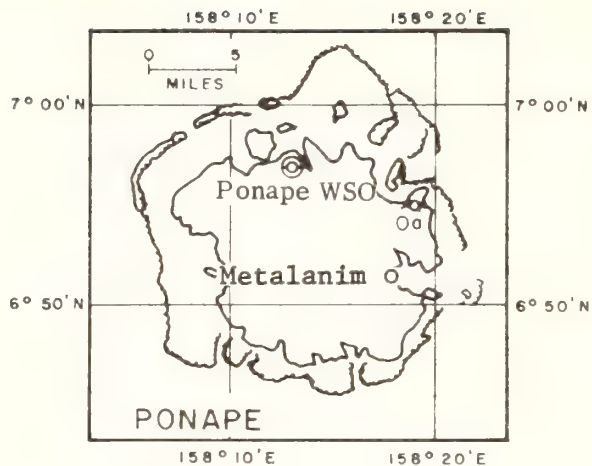
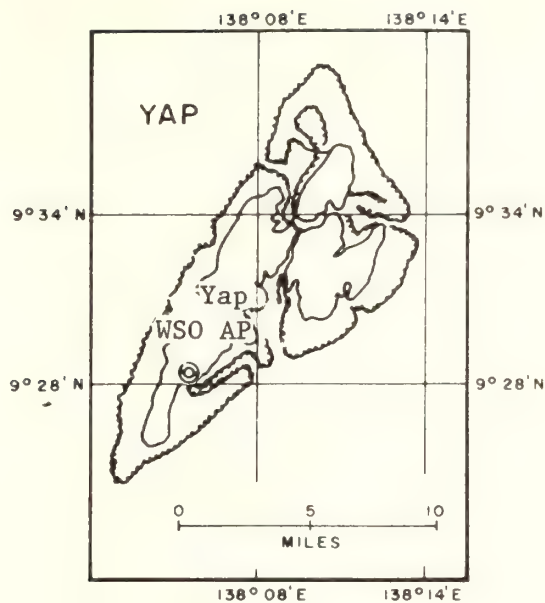




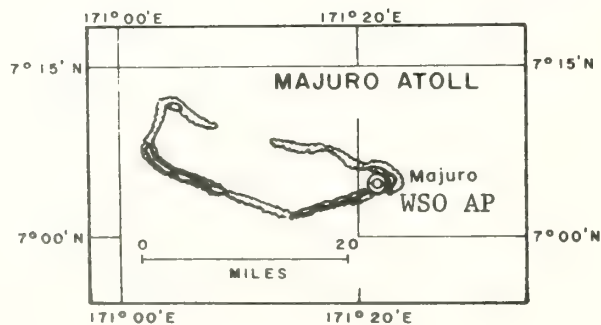
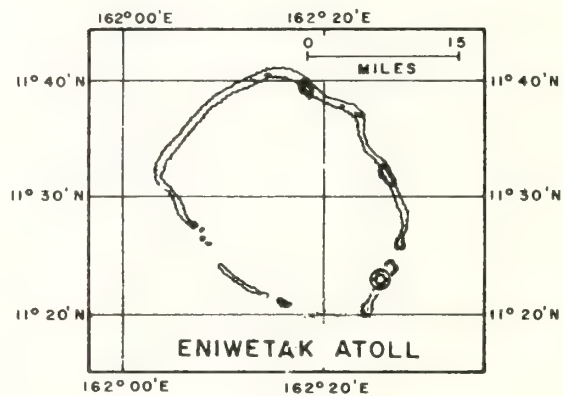
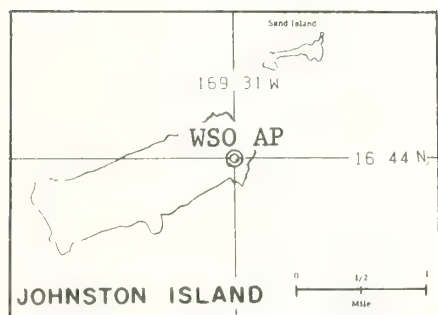
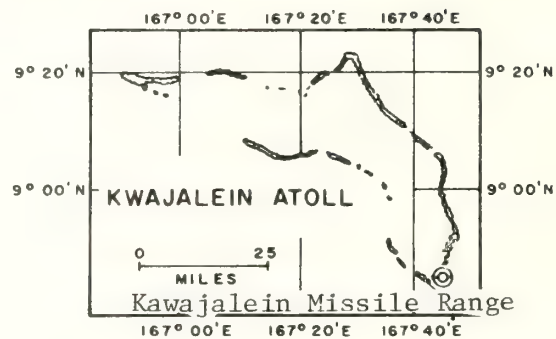
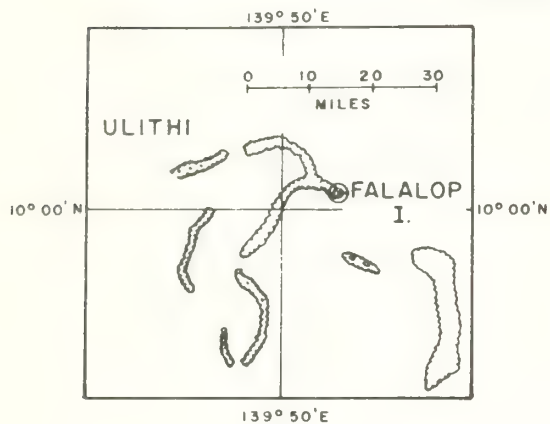
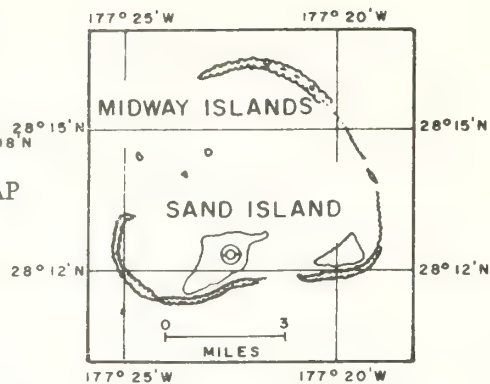
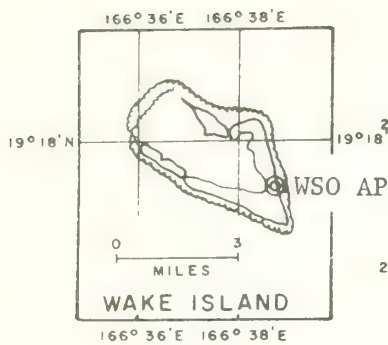


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— Reef



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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KE-AHOLE PT 68-13	HAWAII	94	DATE	11
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	34	DATE	01
GREATEST TOTAL PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	49.07		
LEAST TOTAL PRECIPITATION:	9 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	6.97	DATE	15

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	10-.49	50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
	12	18	00	06																
GUAM WSMO	-	-	-	24	SE	08	-	80	80	91	1	8	17	3	1	0	30	38	8.8	
HILO WSO 87 AP	21	0.9	6.0	17++	11	09+	83	78	63	80	0	11	13	4	1	1	30	38	8.3	
HONOLULU WSO 703 AP	7	13.9	14.4	26++	7	03	76	70	58	72	14	5	2	0	1	0	22	74	5.8	
JOHNSTON WSO AP	8	14.6	15.0	29++	7	19	86	83	74	83	14	7	3	0	0	0	24	88	4.4	
KAHULUI WSO 398 AP	6	13.8	14.7	28	NE	19+	-	69	52	68	3	10	0	0	0	0	13	66	5.7	
KOROR WSO	14	0.7	6.0	19	SW	29	91	-	82	80	3	5	8	7	1	4	28	35	8.9	
KWAJALEIN MISSILE RGN	-	-	-	28++	10	20	85	86	78	81	4	12	9	2	1	1	29		8.1	
LIHUE WSO 1020.1 AP	6	13.6	14.0	23++	6	15+	84	82	73	79	9	11	4	0	1	0	25	48	7.0	
MAJURO WSO AP	8	11.3	11.8	28	E	11	82	84	77	79	4	10	10	2	2	0	28	69	8.6	
PAGO PAGO WSO AP	11	12.1	13.4	25++	12	03	84	83	79	82	4	8	5	2	3	2	24	25	8.3	
PONAPE WSO	-	-	-	17	SE	03	89	-	81	82	2	8	7	5	6	2	30	16	9.2	
TRUK,MOEN I, WSO AP	8	4.9	7.4	26	E	23	86	-	81	81	4	7	12	2	3	1	29	46	9.8	
WAKE ISLAND WSO AP	7	12.3	12.5	23++	6	05	82	83	66	71	2	16	2	0	0	0	20	83	4.1	
YAP WSO AP	8	5.6	7.6	24	NE	19	91	-	83	80	0	7	9	6	2	2	26	39	8.8	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell DIRECTOR
NATIONAL CLIMATIC CENTER

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JUNE 1980

STATION	TEMPERATURE													PRECIPITATION										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.	MIN.	12" OR MORE	1" OR MORE					TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	.10 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A													3.32										
KANALOHU JHULU 1075		70.1	54.9	62.5		76	9	47	27	1	0	0	0	2.72		.53	16		0			10	1	0
KILAUEA POINT 1133	A					86	30	61	1		0	0	0	8.46					0					
KOLOA 936	A													11.04					0					
LIHUE WSO AP 1020.1	R	80.7	72.4	76.6		9	82	30+	69	27+	353	0	0	0	3.07	1.50	1.34	15		0		5	1	1
MAHALEPU 941.1														5.46					0					
MANA 1026														1.38	.89	.38	29+		0		4	0	0	
N. HAILUA DITCH 1051	A													23.59					0					
PH. WAINIHA 1115														V21.80					0					
PUEHU RIDGE 1040														1.61	.81	.88	16		0		4	1	0	
HAHIAHA 930	A													5.31	3.94				0					
HAHIAH LOWER 1054		79.1	65.6	72.4		80	30+	60	27	229	0	0	0	15.68	8.65	1.99	16		0		23	10	6	
HAIMEA 947	M		67.7				64	26			0	0	0	1.59	1.35	1.47	16		0		1	1	1	
ISLAND				70.5											6.80					0				
ISLAND OF OAHU																								
ALOMA STADIUM-HALAWA		83.8M	71.4M	77.6M		88	4+	68	3+	388	0	0	0	V 7.31					0					
B. Y. U. LAIE 903.1		80.8	72.4	76.6		84	22	66	16	353	0	0	0	2.93		.65	1		0		9	1	0	
HONOLULU OBSERV 702.2		87.3	68.9	78.1		89	29+	65	8+	398	0	0	0	1.11		.79	16		0		2	1	0	
HONOLULU WSO AP 703	R	86.3	72.7	79.5		.6	88	30+	68	7	442	0	0	0	1.76	1.44	1.10	15		0		3	1	1
KANEHE MAUKA 781		81.2	74.8	78.0	2.1	86	11	71	23+	399	0	0	0	7.96	5.30	1.74	2		0		9	5	4	
KII-KAHUKU 911	M										0	0	0	0	3.14		.76	1		0		1		0
KOOLAU OAM 833	A													16.08		2.17	6		0		22	13	5	
MANOA LYON ARBORETUM		78.6	67.9	73.3		84	2	66	10+	252	0	0	0	18.73		3.77	14		0		24	12	7	
NUUANU RES. 4 783														11.92	5.99	1.72	14		0		19	9	5	
OPAEULA 870	A	83.3	66.7	75.0	3.3	85	30+	63	8	308	0	0	0	0						0				
PALOLO VALLEY 718	R													13.20	5.53	1.88	14		0		17	11	5	
PJ MANAWAHUA 725.6		77.1	64.8	71.0		80	22	63	2	185	0	0	0	1.83		.98	15		0		3	1	0	
WAIANOLE 837	A													13.15					0					
WAILALUA 847	A	83.8	65.3	74.6		.8	88	30+	60	9+	292	0	0	0	2.77	2.33	1.57	16		0		3	2	1
WAIKIKI 717.2		86.7	71.7	79.2			89	29+	68	22	434	0	0	0	1.27		.59	2		0		2	1	0
WAIMANALO EXP FM 795.1		81.3	72.4	76.9		84	27	68	1	362	0	0	0	0	1.74		.52	1		0		7	1	0
WAIPAHU 750	A													1.65					0					
ISLAND				76.3											6.62					0				
ISLAND OF MOLOKAI																								
MOLOKAI AP 524																								
ISLAND																								
ISLAND OF LANAI																								
LANAI CITY 672	A	75.7	63.1	69.4	- 1.1	78	24+	60	29	138	0	0	0	0	.50	-.78				0		0		
ISLAND				69.4											.50					0				
ISLAND																								
ISLAND OF MAUI																								
HALEAKALA EXP FARM 434	A													4.17	1.02	1.35	11		0		9	2	1	
HALEAKALA R. S. 338		63.6	45.0	54.3	- 2.1	73	17	38	9+		0	0	0	0	2.23		.75	1		0		6	2	0
HANA AIRPORT 355		82.6	73.2	77.9		85	24+	68	26+	394	0	0	0	0	5.01		.86	15		0		15		0
HONOKOHU 493	A													4.90		1.15	5		0					
KAANAPALI AP 453.1		85.9	68.1	77.0		89	17	63	28	368	0	0	0	0	.34		.13	11		0		2	0	0
KAHULUI WSO 398 AP	R	88.1	71.9	80.0	2.9	93	29	65	28	457	8	0	0	0	.22	.01	.04	11		0		0	0	0
KAILUA 446		76.9M	67.0M	72.0M	.0	79	30	62	13	215	0	0	0	0	9.72	2.62				0				
KEANAE 346	A													19.80					0					
KIPAHULU 258														6.56	-.31	.46	12		0		24	0	0	
KULA HOSPITAL 267		72.7	57.3	65.0	.3	75	25+	55	27+	16	0	0	0	0	1.89	.48	.58	1		0		7	1	0
LAHAINA 361		87.6	68.5	78.1	1.6	89	24+	66	26+	398	0	0	0	0	.00	-.09	.00			0		0	0	0
PAIA 406														1.61	-.72	.25	11		0		8	0	0	
WAILUKU 386	A													.35	-.08	.24	2		0		1	0	0	
ISLAND				72.0											4.37					0				
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HQ 54	R	69.2	54.6	61.9	.2	78	27	50	28		0	0	0	0	8.85	4.18	1.19	12		0		19	7	2
HILO WSO AP 87	A	85.3	69.9	77.6	3.0	88	30+	66	9	385	0	0	0	0	9.66	3.05	2.04	11		0		19	6	2
HUEHUE 92.1														2.46					0					
KAINALIU 73.2		77.6	64.5	71.1		81	17	63	29+	190	0	0	0	0	11.07					0				
KAPOHO BEACH 93.11		86.1	69.7	77.9		92	29	66	3	393	3	0	0	0	3.88		.49	8		0		13	0	0
KEAAU 92														V22.51					0					
KE AHOLE PT 68-13		85.3	72.2	78.8		94	11	65	10	421	5	0	0	0	.96	.58	.38	29		0		3	0	0
KUKUIHALE HIC 199														3.54		1.15	13		0		7	2	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JUNE 1980

STATION	TEMPERATURE														PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JUNE 1980

STATION	TEMPERATURE													PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JUNE 1980

STATION	TOTAL	DAY OF MONTH																																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
HAWAII																																						
ISLAND OF KAUAI																																						
ANAHOLA 1114	A	3.32		1.18	.03						20	23	21					1.12	.02		.08								14			06	.07	.15			44	
BYRDESWOOD STA 985	A	9.45		4.12	.28		.20	.11	.14			27	39	23	12				2.62	.01	.02	.01								10			19	.11	.07			17
EAST LAWA 934	A	11.75		4.51	.12		.17	.26	.15			75	58	53	16				3.40	.07	.08	.06	.07							20			03	.01	T			03
ELEELE 927	A	3.76		2.56	.10		.01	.12	T			02	.18	.15	.02				.52	.01											03						01	
HALAUE 1110	A	3.70		1.08	.04		.07					32	.26	.33					1.08	.03		.06									43							
HALENNANHO 1006	A	11.48		3.39	.29		.06	.19	.22			57	.61	.34	.04				4.06	.03	.04	.05	.06							52			16	.11	.26			33
HANALEI TUNNEL 1053	A	14.20					.05												.45																	14	.20	
HUKILO 945	A	54																																				
ILILILUA INTAKE 1050	A	22.88		6.12	.79		1.48	.14	.63			1.58	1.01	.46	1.12				5.02	.26	.21	.12	.17							1.68	.03		.05	.14	.12			2.51
INTAKE MAINIHA PC 1086	A	24.21			5.30							2.53	1.61	.68					14.00																	1.19		
KANALOHULULU 1075	A	2.72		.20	.22		.24	.02	.02				.18	.05	.05				.53	.09	.02															18		
KANEHA RESERVOIR 1092	A	9.14		2.10	.14		.18	.05				.62	.90	.62	.10				2.91	.09	.16	.12	.07	.17							65	.03				10		
KALUA 1112	A	2.88		1.05	.03		.05					.07	.20	.04	.16				.07	.03		.03														24		
KEKAHA 944	A	.96		.03			.01					.02	.03						.42																	.05		
KILAUEA 1134	A	4.67		10.32	.11		.21	.06	.17			.02	.06	.09					.17	.02	.01	.18	.02	.03								.01	.02	.18			17	
KILAUEA POINT 1133	V	8.46		.99	.02		.11	.02	.01			.33	.13	.08	.12				1.67	.04	.01	.05	.01								.01		.01	.06			.37	
KILOA 1033	A	.96			.10		.03					.05	.67	.77	.07				.41																	.22		
KILOA 936	A	11.04		2.96	.15		.09	.19	.13				.67	.77	.07				3.84	.04	.08	.08	.18								.40	.02		16	.18	.01		
KILOA MAUKA 994	A	17.77			10.71		.22					1.89	.12						4.09	.07												.53	.14			.14		
KILOKO RES 1137	A	4.76		.04	.26	.10	.17	.01	.05			.26	.08	.07					.36			.11	.15	.12	.11							.07	.04	.31				
KUKUIULA 935	A	6.83		3.15	.07		.43	.27	.08			.33	.41	.17	.06				1.72	.01	.04	.04	.05								.14	.01		.03	.11	T		.08
LIHUE VARIETY ST 10621	A	6.34		1.84	.10		.46	.01	.26			.47	.53	.10	.02				1.55	.10	.05	.05	.10								.35	.02		.07	.02		.25	
LIHUE 1020	A	5.80		.128	.04		.12	.08				.22	.41	.01	.02				2.82	.01	.03	.06	.04									.34	.09		.04	.09		.04
LIHUE WSD AP 1020.1	/R	5.46					.09	.18				.02	.23	T					T	T		.01	.09									.07	.05		.04	.07		.16
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02				.27	.44	.27					2.07			.08																
MAHALEPU 941.1	A	5.46		1.68	.03		.07	.02																														

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DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PAHALA 21	A	.54	.33	.01						.01							.02							.02							.15	
PAHOA 65	V23.75		1.11	.92	.92	.85	.28			1.95	.52	.50	.68	.48			2.00	.41		.07	.11			.21		.45	.71	.10				.31
PAPA'IKOU 144.1	V23.02		1.71	.46	1.51	1.09	.02			1.22	.56	2.30	1.81	.51			2.32	.06	.21		.05	.24			.16	.02	.44	.26	.09			.38
PAPA'IKOU MAUKA 140.1	A	19.07		2.27						4.00							10.30							1.28								1.22
PITIIONUA 89	A	22.40																														22.40
PUUKOHOLA HEIAU 98.1		1.10							.75	.28																			.07			
PUU LEHUA 73	A	2.70																														2.70
PUUHONUA-O-HONAUNAU		2.03			.17						.07	.30	.30				.15			.03		.03			.14	.15		.26		.03		.57
S GLENWOOD	16.88		.95	1.03	.75		1.73	.07	.33	.09	.45	.77	1.70	1.65		2.30	.50	.79	.03	.60	.02	.18	.38	.12	.19		.70	.47	.13	.15	.23	
SOUTH KONA 2.31	55			.03	.07				.03	.77		.05	.13	.03	.02	.15	.02															.02
UPOLU POINT USCG 159.2		1.91	.15		.02	.18	.05	.02			.16	.53	.17	.28	.20	1	.07		1		.04	.02						.02	1			
WAIKAEA SCD 88.2	16.73	.77	.27	.57	1.32	1.90	1	.31	.41	.14	.93	1.81	1.62	1.33	1.15	.54	.94	.11	.62		.10	.05	.35	.12	10	.05	.80	.22	.07	1	.09	.04
WAIKALOA-BOIS CAS 95.8	1.23	1.08																														1.13

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAIIAN ISLANDS																																	
FALEASAO VILLAGE	R	16.45	1.38	.53	.71	.16	1.07	.85	.98	.11	.08	.25	.02	.11	.39	.76	.38	.06	.14	.18	.01	.01	.1	.16	.45	.82	.36	.84	.75	.28	1.24	2.03	
MIDWAY SAND ISLAND	R	1.98				.13	.01	.03	.1	.04	.01	.1	.05	.16	.1					.32			.01	.05	.1	.49	.1	.39	.1	.32	.1		
PAGO PAGO WSO AP	R	11.90		.1		.1	.1			10.2	.94	2.26	1.05	.03	.01	1.42	1.02	.97		.06	.04	.03	.36	.08	.01		.1	.24	.33	.51	.38	.06	
MARSHALL ISLANDS																																	
ANDERSEN AFB GUAM	R	10.50	2.04	1.52	.18	.05	.03	.35	.53	.28	.14	.11	.17	.77	.16	.14	.22	.1	.23	.19	.02	.1	.1	.18	.74	.58	.40	.41	.07	.51	.13	.35	
DEDEDO GUAM NAS	R	12.44	4.0	1.03		.10	.15	.38	.34	.32		1.12	.38	.25	.78	.85	1.18	.01	.14	.05	.19	.01	.06	.26	.11	.34	.86	.49	.01	.55	.16	.12	
GUAM WSO	R	7.96	1.51	.40	.05	.02	.07	.52	.24	.15	.13	.09	.42	.21	.24	.10	.22	.1	.45	.11	.01	.19	.08	.21	.41	.53	.56	.44	.04	.07	.30	.19	
INARAJAN AG STN	R	9.16		.19	.23	.20	.50	.18		.31		.40	.11	.85	.71			.12	.62	.22	.46	.82			.56	.10	.23	.42	.90		1.03		
INARAJAN - NASA	R	11.28	.78	2.24	.06	.01	.03	.17	.10	.16	.17	.27	.03	.22	.76	.07	.92	.01	.01	.36	.01	.37	.11	.10	.33	.14	.12	.90	.29	1.68	.66	.10	
MANGILAO	R	11.54	2.89			.06	.32	.51	.49	.11	.1	.15	.03	.45	.44	.15	.60				.30	.1	.08	.1	.1	.40	.08	.42	.50	.33	.67	1.21	.35
SAIPAN LORAN	R	11.22		2.00				.23	.30	.16	.05	.50	.20	.50	.1	.80		1.10	.70	1.40		.15	.1	.30		.76	.1	.60	.60	.85	.1	.02	
NAKE ISLAND WSO AP	R	1.00	.03	.03	.24	.01	.01	.03	.04			.01	.1				.05		.07	.01	.38	.15	.02	.30		.02	.01	.1	.01	.01	.02	.02	
YICO	R	12.49	1.20	2.40		.30	.10	.50	.81	.25	.69	.23	.46		1.50	.1	.1	.88	.1	.13	.1	.05		.76	.1	.77	.1	.1	.1	1.26	.1	.20	
MICHIGAN																																	
PALALOP I ULITHI ATOLL	R	19.50				.04	.24	.64		.02	.90	.72			.14	.1	.75	.63			.66		.31	.2	.91	1.74	.15	.69	.38	.04	.15	.79	
KAPINGMARANGI ATOLL	R	9.29	.02	.19	.07	.20	.11	.03	.32	.01	.1	.19	.1	.21	.41	.03	.06	.04			.08		.50	1.51	.03	.03	.02	.11		.03	.1	.22	
OROR WSO	R	6.71	.62	.1	.08	.02	.66	.01	.1	.1	.25	.11	.32	.16	1.24	.13	.04	.14	.06	.1	.04	.23	.01	.11	.03		.21	.05	.04	.46	1.75	.01	
ATAMAN ATOLL	R	25.61	1.17	1.68	2.63	.93	.07	1.29	.06	6.44	.01	.04	.30	.02	.35	4.83	.04	.23	.02	.10	.14	.50	.24	.08	1.46	.74	.17	.05	.1	.20	1.50	.32	
ATAMAN WSO	R	23.21	1.31	1.15	1.75	.69	.32	1.25	1.89	4.70	.1	.11	.04	.01	.04	2.92	.98	.04	.20	.04	.30	.33	.09	.94	1.97	.30	.01	.14	.1	.85	.76	.06	
ROK MOEN I WSO AP	R	12.88	3.17	.1	.08	.1	.44	.29	.28	.06	.1		.55	.1	.02	.49	.40	.33	.10	.61	.30	.18	.02	.23	1.74	.07	.06	1.42	.01	.34	.29	1.40	
OLEAI ATOLL	R	13.52	.54			.11	.01		.55	.03	.23	.08	1.08	.04		.05	.80	.57	.01	.01	.90	.40	.81	.19	.18	1.33	.16	.12	.34	2.04	.18	2.76	
AP WSO AP	R																																

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HAWAII																																		
* * *																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	71 50	71 56	70 55	70 58	71 55	69 56	73 56	72 53	76 55	69 56	70 59	69 56	65 57	70 59	63 58	69 58	71 58	68 57	72 58	70 57	67 50	72 50	73 49	73 49	69 56	70 52	70 47	63 57	72 51	74 52	70.1 54.9		
KILAUEA POINT 1133	MAX MIN	85 61	82 61	80 70	82 63	80 70	83 70					84 66	80 68	81 63			82 71	81 69	80 63	82 62	80 70			84 70	84 71	85 72	85 73	85 71			86 70			
LIHUE WSO AP 1020.1	MAX MIN	81 69	81 75	81 74	80 74	81 71	81 72	81 73	73 73	81 73	80 70	80 74	80 72	79 72	80 71	75 71	81 74	81 74	80 71	80 71	81 72	80 70	80 72	82 73	82 73	81 73	82 73	81 69	82 74	82 75	82 76	80.7 72.4		
NIU RIDGE 1035	MAX MIN	84 67	85 66	79 65	84 67	85 66	85 66	85 66	87 66	84 65	86 69	84 67	87 65	84 66	86 68	80 68	84 66	80 68	82 68	84 66	84 68	81 68	84 66	85 66	84 65	82 69	84 67	86 66	82 67	83 66	84 65	83.8 66.6		
WAIHAI LOWER 1054	MAX MIN	80 64	79 66	79 67	77 66	79 67	80 64	78 67	80 64	79 64	80 64	79 66	78 66	79 67	78 65	78 66	77 66	80 67	79 68	78 66	79 67	80 66	80 65	79 64	80 65	79 63	80 60	80 65	80 66	80 67	79.1 65.6			
WAIIMEA 947	MAX MIN	80 69	83 71	84 69	85 66	84 68	86 69	84 66	85 67	84 68	85 70	85 69	87 66	87 70	86 70	80 72	80 68	81 69	68	69	69	67			67	66	65	66	64	66	65	67	68	67.7
* * *																																		
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN		88 68	88 68	88 69	82 73	82 73	82 73	87 74	83 74	82 74	84 69	82 71	82 71	83 70	84 70		84 71	85 74	82 74	82 71				85 70	85 73	85 74	85 72	83 70		83 69	83.8 71.4		
B Y U LAIE 903.1	MAX MIN	79 69	80 68	80 70	80 71	80 74	81 73	79 71	80 72	81 74	81 71	80 73	80 74	82 73	80 72	80 68	77 66	79 67	81 75	82 74	80 77	82 72	84 75	83 75	81 75	83 75	82 74	81 75	81 74	82 75	83 71	80.8 72.4		
HONOLULU OBSERV 702.2	MAX MIN	81 67	85 67	88 70	87 70	87 66	88 70	87 65	87 65	88 66	87 71	89 73	87 72	88 71	85 69	87 70	85 71	88 74	87 73	89 70	86 68	88 66	88 66	89 69	88 69	88 69	88 69	88 68	88 67	89 67	87 68	87.3 68.9		
HONOLULU WSO AP 703	MAX MIN	84 71	86 72	85 72	86 73	86 74	86 73	86 68	87 72	86 73	87 73	86 73	87 73	84 72	85 72	87 72	86 74	85 75	86 75	87 74	87 73	87 73	87 72	87 72	87 74	87 73	86 72	88 71	87 73	88 72	88 74	86.3 72.7		
KANEONE MAUKA 781	MAX MIN	77 71	77 72	78 72	81 73	79 74	81 78	81 75	82 77	82 77	82 76	86 73	81 74	82 72	80 74	80 72	79 76	82 76	81 71	81 73	82 77	82 75	83 76	83 71	83 78	83 73	82 74	82 76	80 75	82 77	85 76	81.2 74.8		
KII-KAHUKU 911	MAX MIN	81 67	81 66	81 68	81 70	81 71	81 71	81 68	81 71	81 71	81 70	82 71	83 73	81 70	80 71		71	74	72															
MANOA LYON ARBORETUM	MAX MIN	80 66	84 68	81 67	74 68	80 67	75 67	75 68	81 68	80 67	77 66	77 68	77 68	80 68	75 69	77 68	79 69	78 71	80 70	78 68	82 70	80 68	80 68	80 68	76 68	75 67	80 67	81 67	82 68	79 68	78.6 67.9			
OPAUELA 870	MAX MIN	80 66	85 66	84 65	85 65	85 66	78 64	79 63	85 65	85 65	85 65	85 66	85 66	78 66	78 68	85 69	85 68	85 68	85 67	85 67	85 67	79 65	85 65	85 65	85 65	85 65	85 65	81 66	82 66	85 65	83.3 66.7			
PUU MANAWAHUA 725.6	MAX MIN	77 65	77 63	76 64	76 64	77 64	77 64	78 64	77 64	78 64	76 65	76 64	77 65	77 66	75 66	76 66	77 66	77 66	77 66	75 65	79 65	79 64	80 65	79 65	77 65	78 65	77 65	76 65	77 65	78 66	77.1 64.8			
WAIALUA 847	MAX MIN	80 62	80 66	85 65	83 69	83 64	85 66	82 60	82 60	85 60	86 68	85 68	85 67	84 66	80 68	82 68	80 66	84 68	84 69	82 66	82 69	84 68	84 62	84 64	88 65	85 62	85 66	85 64	86 66	88 66	88 66	83.8 65.3		
WAIKIKI 717.2	MAX MIN	85 69	86 71	85 70	82 72	85 73	85 71	85 68	86 72	87 71	86 73	87 73	86 73	87 72	88 71	88 72	88 74	86 74	87 74	85 72	88 72	88 72	89 73	89 74	88 73	87 73	87 71	87 70	87 71	89 72	88 73	86.7 71.7		
WAIMANALO EXP FM 795.1	MAX MIN	79 68	81 73	81 71	80 71	80 72	81 72	80 71	81 73	82 74	82 70	81 73	81 74	82 71	79 70	80 71	82 70	82 74	81 74	82 74	82 72	82 72	81 73	81 74	83 73	82 74	82 72	84 73	83 74	83 74	83 74	81.3 72.4		
* * *																																		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
* * *																																		
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	76 67	77 62	79 62	82 65	80 63	79 65	80 63	79 63	81 62	81 65	82 66	82 66	81 66	81 66	81 66	80 65	82 68	82 65	81 65	81 64	81 63	82 63	80 63	80 63	83 65	82 65	82 63	80 64	79 63	82 64	80.5 64.4		
LANAI CITY 672	MAX MIN	76 64	78 61	77 61	76 63	75 61	76 63	75 62	75 63	77 63	76 64	75 63	76 64	76 64	78 65	75 65	77 66	76 66	78 66	73 65	72 65	73 61	75 62	76 61	78 62	76 63	76 63	75 61	75 62	76 60	75 64	75.7 63.1		
* * *																																		
ISLAND OF MAUI																																		
HALEAKALA R S 338	MAX MIN	59 46	60 44	64 43	61 44	57 39	61 44	59 40	61 38	60 38	62 46	61 47	61 45	63 43	59 45	59 45	65 45	73 42	70 58	71 56	71 54	72 50	66 49	67 49	69 49	67 42	62 43	62 40	61 40	61 39	63 43	63.6 45.0		
HANA AIRPORT 355	MAX MIN	83 75	84 75	85 77	83 71	80 70	83 68	82 70	84 68	83 78	79 78	81 78	82 78	80 72	78 76	78 73	82 76	84 73	81 73	82 72	83 72	83 71	85 72	83 72	85 76	85 75	83 70	84 68	84 69	83 69	84 77	84 76	82.6 73.2	
KAANAPALI AP 453.1	MAX MIN	83 70	85 67	86 64	86 69	82 68	85 68	88 72	87 68	86 70	86 68	84 68	84 68	85 70	85 69	83 69	86 70	89 73	86 71	87 71	85 70	86 66	87 68	87 68	87 68	87 68	87 68	87 64	87 66	87 67	88.9 68.1			
KAHULUI WSO 398 AP	MAX MIN	90 72	90 71	87 67	87 73	89 73	88 73	86 73	86 63	88 63	88 72	86 72	87 74	88 74	88 73	88 75	88 76	88 76	87 74	88 75	87 73	90 74	89 75	89 73	91 73	90 68	89 68	88 66	89 73	89 66	89 68	88.1 71.9		
KAILUA 446	MAX MIN	76 68	78 68	78 67	77 67	75 65	77 65	78 68	78 66	77 66	74 66	76 68	76 68	76 62	74 67	76 68	78 67	78 67	76 68	77 68	77 68	77 66	78 66	78 66	78 66	76 67	78 66	78 67		79 66	76.9 67.0			
KEAWAKAPU BEACH 260.2	MAX MIN	86 71	85 69	88 65	90 66	87 66	88 65	88 65	88 65	86 66	90 66	89 67	89 66	88 66	89 68	88 68	89 68	90 70	88 68	89 67	87 68	88 67	89 67	89 67	91 69	92 67	87 67	90 67	90 66	88.8 67.0				
KULA BRANCH STN 324.5	MAX MIN	69 59	73 58	74 56	75 57	72 57	72 56	73 55	74 55	75 55	74 57	75 57	75 57	74 57	74 59	69 58	73 56	72 58	76 57	74 57	74 57	75 56	76 56	73 56	75 56	76 56	70 56	72 56	73 56	76 56	73.5 56.8			

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STATION	DAY OF MONTH																															AVERAGE
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HAWAII																																
KILA HOSPITAL 267	MAX MIN	72 59	70 59	74 56	74 57	71 56	71 57	73 58	72 57	71 55	73 56	72 60	74 60	72 57	74 60	75 61	73 58	73 59	72 56	72 56	72 55	74 55	72 58	75 56	74 56	72 55	70 57	72 57	74 56	72.7 57.3		
LAHAINA 361	MAX MIN	86 73	87 69	88 66	87 69	85 66	86 67	87 68	87 68	88 66	88 70	88 68	89 67	88 73	89 71	88 71	87 70	87 67	89 68	87 68	89 68	88 68	89 70	89 67	88 70	88 66	87 67	88 69	87 68	87 69	87.6 68.5	
ISLAND OF HAWAII																																
HAWAII VOLCONS NP HQ 54	MAX MIN	66 55	66 53	66 54	67 56	65 54	69 52	69 54	70 53	72 52	74 55	70 56	62 56	61 56	65 57	66 56	67 56	70 58	72 55	72 55	72 54	71 54	74 56	72 56	68 55	68 54	78 52	73 50	74 53	70 53	69.2 54.6	
HILO WSO AP 87	MAX MIN	84 71	85 69	86 69	78 71	86 68	86 67	86 69	83 67	85 66	86 70	83 71	85 71	84 71	87 71	84 72	85 70	86 73	87 71	85 71	87 69	88 70	87 71	87 72	84 70	83 69	87 68	87 68	85 71	88 70	85.3 69.9	
KAINALIU 73.2	MAX MIN	79 64	79 65	77 65	78 65	77 63	77 65	78 63	79 65	79 65	74 64	79 64	74 63	78 65	75 63	74 63	79 65	81 68	80 65	77 66	79 66	75 66	79 63	79 67	76 66	76 64	77 63	79 64	74 63	78 64	77.6 64.5	
KAPOHO BEACH 93 11	MAX MIN	87 70	89 70	84 66	84 69	83 68	86 68	87 67	85 68	77 67	84 68	86 71	83 72	85 70	85 71	86 72	81 73	84 72	87 71	89 69	88 70	87 71	89 73	90 73	87 69	85 68	89 68	89 67	92 70	90 69	86.1 69.7	
KE-AHOLE PT 68-13	MAX MIN	87 73	91 72	88 73	87 70	88 71	87 68	89 70	89 72	90 74	89 65	94 72	88 74	80 74	80 72	80 73	90 75	80 73	87 75	83 74	81 75	81 75	84 77	93 72	87 72	83 74	80 73	80 70	80 69	81 70	81 72	85.3 72.2
KULANI CAMP 79	MAX MIN	65 56	68 53	61 50	63 55	59 53	62 46	62 51	62 50	64 47	58 49	61 50	58 49	61 53	61 53	62 53	65 48	67 48	67 56	72 52	66 45	64 56	66 50	67 49	63 56	64 52	65 52	63 48	66 58	64 49	63.9 51.2	
LALAMILO FLD OFF 191.1	MAX MIN	83 56	82 60	82 61	82 60	77 59	78 59	79 59	76 59	75 60	74 61	75 61	76 62	78 63	79 61	75 63	73 62	77 58	77 65	76 58	76 58	78 55	78 56	75 60	75 60	77 61	76 61	78 60	78 60	77.3 60.0		
MAUNA KEA OBS 111.2	MAX MIN																															
MAUNA LOA SLOPE OBS	MAX MIN	52 34	53 36	57 38	56 38	55 38	52 38	53 36	52 36	59 39	64 40	62 44	60 43	61 41	57 37	54 35	55 41	56 41	57 39	61 42	61 42	58 43	57 41	56 38	61 43	57 41	56 39	52 38	56 39	56 42	56.9 39.4	
MOUNTAIN VIEW 91	MAX MIN	76 63	77 61	72 62	76 62	70 62	77 59	78 59	79 62	79 59	80 59	79 63	72 64	74 63	75 65	76 65	75 64	76 65	76 65	79 65	81 65	79 63	76 62	80 65	78 63	77 62	73 61	75 61	78 60	80 61	76.8 62.3	
NAALEHU 14	MAX MIN	79 66	79 67	76 61	77 69	77 66	80 65	79 68	79 68	80 64	80 64	79 67	75 67	79 68	81 70	80 71	80 67	82 67	81 69	80 67	80 68	81 68	81 65	81 67	80 69	79 65	80 66	80 67	82 69	81 65	79.6 66.9	
OOKALA 223	MAX MIN	81 69	82 70	82 67	81 67	72 67	80 68	80 69	80 69	81 67	79 66	80 67	78 67	78 67	80 69	81 70	79 69	80 70	76 69	81 70	81 70	80 69	81 69	80 70	80 69	79 66	80 66	80 69	81 70	81 71	79.7 68.5	
OPIHIHALE 2 24 1	MAX MIN	82 62	81 62	81 62	79 60	77 62	80 63	81 57	81 60	79 62	82 58	80 62	79 58	82 60	78 61	81 60	80 59	80 60	82 62	84 62	83 64	78 62	80 64	79 63	78 63	78 61	79 60	79 60	80 58	79 61	81 63	80.1 61.0
PUUKOHOLA HEIAU 98 1	MAX MIN	88 67	80 63	89 69	88 65	87 68	91 69	89 66	88 65	89 65	88 64	88 67	91 64	87 72	89 69	88 69	89 68	90 73	88 71	89 70	92 68	91 67	89 66	88 69	89 67	89 66	89 66	91 65	88 66	88 66	88.9 67.3	
SOUTH KONA 2.31	MAX MIN	78 60	80 60	74 60	74 57	68 58	75 60	75 56	78 60	77 56	81 60	76 61	70 58	75 56	74 59	70 60	72 62	78 58	81 58	77 62	74 57	77 59	72 62	80 61	78 62	78 60	72 58	77 62	81 61	82 58	72 60	75.9 59.4
UPOLO POINT USCG 159.2	MAX MIN	86 71	83 70	83 68	82 67	79 67	79 67	81 67	83 68	84 69	82 68	84 68	81 69	80 69	82 70	84 71	83 73	85 71	85 68	84 71	84 71	83 70	83 70	85 70	84 69	84 68	84 67	84 70	84 70	83.2 69.2		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
JUNE 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	86 77	86 78	85 79	85 76	85 77	85 75	85 76	86 78	86 78	85 77	85 79	86 76	85 78	85 75	85 77	85 78	86 79	85 79	85 78	85 79	85 79	86 73	85 79	85 76	85 78	86 79	86 78	86 78	87 78	86 79	85.4 77.7		
MIDWAY SAND ISLAND	MAX MIN	77 71	80 67	79 68	76 68	78 70	81 72	84 73	82 72	83 74	83 74	83 75	83 75	83 75	83 75	84 74	83 74	82 71	82 73	82 74	83 73	83 73	83 76	84 77	86 76	82 70	85 75	81 74	82 74		82.1 73.3			
PAGO PAGO WSO AP	MAX MIN	83 78	84 78	84 78	84 78	84 79	85 79	85 70	85 71	81 76	84 75	84 75	85 78	86 80	83 78	83 77	87 79	88 77	84 78	84 79	81 77	83 76	86 79	85 75	86 79	85 78	82 76	81 77	85 77	85 77	82 78	84.1 77.1		
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	82 76	84 74	85 79	85 79	85 76	82 77	86 79	85 76	84 77	85 79	85 77	85 78	86 79	84 78	85 78	86 79	86 78	86 79	86 80	85 79	86 79	86 78	85 74	84 77	84 77	82 77	84 78	81 78	84 79	85 79	84.6 77.8		
CLARK AFB LUZON	MAX MIN	91 79	91 79	91 79	90 77	90 75	90 77	93 79	93 79	93 79	91 79	91 79	93 81	93 79	95 79	95 79	93 79	95 81	95 77	92 77	91 77	91 79	90 79	88 77	90 79	91 77	90 75	91 77	93 79	93 73	93 79	91.9 78.1		
GUAM NAS	MAX MIN	88 76	90 74	90 79	88 79	87 79	88 79	90 80	90 78	87 76	90 79	90 79	86 78	86 77	85 75	85 76	88 76	86 78	88 79	90 78	89 78	90 79	90 79	89 77	88 79	88 78	84 78	89 78	86 78	88 80	90 80	88.1 77.9		
GUAM WSMO	MAX MIN	85 73	84 72	86 76	84 75	84 75	82 74	86 75	85 74	83 76	85 75	85 72	84 74	84 75	83 76	85 73	85 74	86 76	86 76	85 76	86 75	86 75	86 74	84 72	84 74	85 74	81 75	86 75	84 75	86 77		84.7 74.6		
INARAJAN - NASA	MAX MIN	86 73	86 73	84 74	86 76	86 76	87 76	86 72	87 73	87 65	86 72	87 75	87 75	87 73	86 72	86 65	86 65	87 65	87 67	87 67	87 71	87 74	88 77	88 77	87 76	89 76	88 75	87 76	86 77	86 78	86 78	86.7 73.0		
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	88 74	87 75	84 75	87 74	87 74	87 75	88 76	87 75	88 75	87 76	88 77	87 76	88 77	88 77	88 77	89 77	89 77	90 77	90 78	88 79	90 78	90 79	91 80	91 79	91 79	92 79	92 78	93 78	90 79	89 75	89 76	88.8 76.8	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	90 75	90 78	90 76	89 77	90 77	89 76	89 76	86 74	88 75	90 76	91 77	83 76	89 76	90 76	90 76	89 75	90 76	90 76	91 74	89 74	81 74	88 76	87 73	87 75	83 77	87 77	88 75	82 73	88 73	88 74	88 74	88.1 75.4	
KWAJALEIN MISSILE RGN	MAX MIN	88 79	87 78	87 77	86 76	88 78	88 78	88 76	88 79	87 80	88 78	88 78	83 75	85 77	87 78	87 78	87 78	88 81	88 77	88 75	87 73	88 78	88 81	87 80	87 79	88 80	88 79	88 75	83 74	87 79		87.2 77.6		
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	85 76	87 79	86 78	87 79	84 75	86 78	88 80	88 80	88 76	87 76	86 75	86 75	87 76	86 76	87 78	87 77	87 78	87 79	87 78	87 79	87 78	88 77	88 77	88 77	86 75	88 77	88 77	86 74	87 79		86.8 77.0		
METALANIM	MAX MIN	87 77	83 74	82 74	87 71	88 76	85 74	83 78	83 72	84 76	82 79	81 78	84 74	85 75	87 73	84 74	88 75	90 78	88 79	89 75	90 74	89 76	90 76	87 78	85 75	88 73	87 75	90 73	89 76	88 76	88 75	86.4 75.3		
PONAPE WSO	MAX MIN	85 77	82 74	81 73	88 70	88 75	86 74	90 76	81 72	90 79	89 78	88 77	91 74	91 77	90 73	85 73	90 74	90 78	91 76	91 75	91 73	90 75	91 76	89 75	87 75	87 75	89 74	91 74	91 73	92 77	85 75	91 74	88.5 74.9	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	82 75	87 75	87 79	89 77	88 76	87 76	85 77	89 78	89 80	88 79	86 76	88 76	87 78	88 75	88 76	89 76	88 78	87 77	90 75	86 75	90 80	87 78	88 73	85 75	88 75	82 74	88 75	88 75	86 75	88 75	87.3 76.3		
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	88 73	87 74	87 76	88 76	89 75	88 76	89 74	87 73	86 76	85 75	87 75	87 74	88 77	88 77	88 76	87 76	86 77	89 73	84 73	86 72	86 74	88 77	83 72	86 74	88 77	83 72	88 73	87 74	87 72	86 75	86 74	88 74	87.1 74.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
JUNE 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
W. I. KAHULU 911	LINE 1																																	-
	4	MAX	78	79	83	82	82	85	84	85	83	83	83	83	80	82	78	81	80	83	84	-	-	-	-	-	-	-	-	-	-	-	-	-
		MIN	75	74	75	75	76	76	75	76	77	77	76	76	77	77	75	76	75	75	76	-	-	-	-	-	-	-	-	-	-	-	-	-
MANOA LYNN ARBORETUM	LINE 1																																	
	4	MAX	77	76	77	75	76	75	75	74	75	76	74	74	74	73	73	75	76	76	76	76	80	78	78	78	76	75	76	79	80	78	76.0	
		MIN	75	75	75	74	74	74	73	73	74	74	73	73	73	72	72	72	73	73	73	73	73	75	75	74	74	73	73	73	75	75	73.6	
WAILAIA H47	LINE 1																																	
	4	MAX	-	-	92	94	95	92	-	-	-	94	99	94	91	-	-	-	-	-	87	92	102	100	101	100	100	102	100	-	-	-	-	
		MIN	-	-	80	80	80	80	-	-	-	77	79	80	80	-	-	-	-	-	73	73	75	75	74	75	73	74	73	-	-	-	-	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
JUNE 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324.5	4	MAX	-	71	73	73	71	72	-	-	73	72	-	74	73	-	-	71	74	72	74	75	-	-	76	73	74	75	73	-	-	72		
		MIN	-	67	69	70	69	69	-	-	69	69	-	69	69	-	-	68	71	69	70	71	-	-	71	70	71	71	69	-	-	68		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JUNE 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LAHOLE WSO AP 1020.1	EVAP	.22	.32	.31	.32	.36	.23	.37	.24	.42	.28	.38	.33	.33	.21	.18	.38	.23	.30	.23	.19	.26	.19	.26	.21	.39	.30	.37	.32	.33	.30	8.76
	WIND	88	156	222	256	111	4	-	-	-	-	262	268	215	215	246	231	211	195	180	131	125	132	150	189	192	128	172	156	179	53008	
	MAX	88	86	83	83	83	81	81	81	86	84	82	80	83	77	79	79	82	79	82	80	84	82	83	81	83	80	86	86	84	87	82.5
	MIN	60	66	64	65	63	63	65	58	64	64	65	64	64	64	65	65	65	65	65	66	65	65	65	67	64	67	64	65	65	65	64.4
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.17	.30	.45	.46	.50	.50	.46	.60	.52	.45	.45	.60	.60	.22	.45	.04	.45	.30	.30	.30	.40	.45	.45	.50	.45	.54	.30	.43	.43	.30	12.37
	WIND	25	18	31	38	34	31	26	26	24	35	46	46	36	25	23	10	35	28	28	29	20	22	21	22	29	33	21	23	22	26	833
	MAX	87	93	95	94	93	93	91	95	91	95	94	93	94	89	92	85	94	89	91	91	93	96	91	94	94	95	93	94	95	90	92.5
	MIN	68	68	68	68	67	66	66	66	66	67	67	66	66	67	69	69	69	69	69	68	69	68	68	67	68	66	65	68	68	68	67.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JUNE 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
° ° ° EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP WIND	.35 121	.27 139	.39 162	.29 163	.25 180	.35 191	.33 159	.36 173	.40 175	.41 193	.25 167	.33 166	.40 195	.36 182	.35 158	.33 164	.39 195	.40 207	.46 245	.40 209	.36 188	.40 197	.28 191	.37 202	.32 173	.37 177	.46 151	.27 118	.44 141	.30 208	10.64 5290
PAGO PAGO WSO AP	EVAP WIND MAX MIN	.21 222 79 75	.38 227 88 74	.33 250 83 72	° 425 88 73	.54 149 92 72	.20 149 94 70	.22 74 94 68	.12 52 90 68	- 72 85 68	- 93 88 75	- 104 89 75	.18 147 90 76	.16 135 91 76	.13 136 83 75	- 186 82 76	- 96 87 76	.16 42 94 74	.16 102 92 75	.18 192 86 74	.16 228 80 73	- ° 91 75	- 380 96 75	.12 96 86 74	.17 127 87 76	.28 135 87 72	.26 227 88 74	.12 257 88 72	.08 187 86 74	.73 256 86 74	6.608 4832 87.6 73.6	
° ° ° WESTERN PACIFIC ISL, NORTH OF 12 N																																
GUAM WSMO	EVAP WIND MAX MIN	.22 56 87 70	.18 43 90 70	.25 84 90 71	.28 102 90 70	.33 129 88 72	.13 142 88 71	.23 153 89 71	.24 157 89 70	.31 113 89 72	.24 176 89 70	.27 101 88 72	.21 136 126 72	.35 126 155 72	.28 133 139 71	.27 164 131 71	.11 131 120 71	.30 123 125 72	.28 123 125 72	.23 143 125 70	.23 125 143 70	.30 125 143 70	.27 119 88 71	.19 109 85 71	.15 71 80 71	.05 71 88 70	.13 73 88 70	.09 111 84 72	.16 106 88 72	.33 111 88 63	6.91 3545 87.7 70.7	
° ° ° CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP WIND MAX MIN	.06 9 89 73	.23 19 94 72	.21 19 93 74	.27 14 97 73	.25 42 93 74	.24 12 95 74	.26 27 96 74	.18 42 87 73	.13 23 89 73	.14 23 87 74	.22 161 87 73	.20 23 91 73	.30 27 93 73	.28 31 95 76	.16 21 94 75	.23 40 91 74	.16 30 89 74	.15 45 93 73	.29 42 81 75	.20 46 81 74	.09 110 79 74	.11 57 90 74	.20 47 94 74	.26 52 90 73	.05 32 88 72	.28 63 93 74	- 45 88 74	.22 50 87 73	.30 66 87 71	.10 51 93 73	5.978 1124 90.4 73.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JUNE 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983		0140	02	KOLOA	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A	0145	01	KAWAITHAU	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A	0240	02	KOLOA	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A	0456	02	KOLOA	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A	0470	02	KOLOA	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0935	01	KAWAIIHAU	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HANALEI 1006	A	1038	02	LIHUE	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2		1140	02	KAUAI	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A	1170	01	KAWAIIHAU	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945		2161	03	WAIIMEA	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILILIULA INTAKE 1050	A	2222	02	LIHUE	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A		2227	01	HANAIEI	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIIMEA	22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAU	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104		3159	01	KAWAIIHAU	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A	3982	01	KAWAIIHAU	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944		4272	03	WAIIMEA	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANAIEI	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANAIEI	22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033		4735	03	WAIIMEA	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A	4758	01	KAWAIIHAU	22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A	4950	02	KOLOA	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	A	5560	02	LIHUE	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A	5575	02	LIHUE	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	21 59	159 21	103	8A	8A	7A	C J	NATL WEATHER SERVICE
MAHAULEPU 941.1		5710	02	KOLOA	21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A	5864	03	WAIIMEA	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIIMEA	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A	6433	01	WAIIMEA	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A	6529	01	KAWAIIHAU	22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R	6565	03	WAIIMEA	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035		6850	03	WAIIMEA	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115		8155	01	HANAIEI	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANAIEI	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040		8205	03	WAIIMEA	22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A	8941	02	KOLOA	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054		8958	02	LIHUE	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052		8966	02	LIHUE	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943		9253	03	WAIIMEA	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947		9629	03	WAIIMEA	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A	9955	02	KOLOA	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12		0055	01	KOOLAUPOKO	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5		0248	02	OAHU	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807		0300	03	EWA	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741		0507	03	EWA	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19		1308	02	OAHU	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A	1540	03	EWA	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2		1918	03	EWA	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WFO AP 703	#	1919	02	HONOLULU	21 20	157 55	7	MID	MID		C J	NATL WEATHER SERVICE
KAENA POINT 841.3		2410	04	WAILUA	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAULOA	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHALA 912	A	2570	01	KOOLAULOA	21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910					BOARD OF WTR SUPPLY
KANEOHE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	MID			HAWAII STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A		G	JEFF WALLACE
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	280				C	HON BOTANIC GARDENS
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		G	LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAELUA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1315		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		G	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330				C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	KALUA KOI GOLF COURSE
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			U S D A
MALAUCA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEAKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A	0175	02	HANA	20 37	156 20	2060		VAR			C
FIELD 46 474		0541	04	LAHAINA	20 59	156 38	1050					
HAELAAU 477	A	0790	04	LAHAINA	20 57	156 36	2980		MO			C
HALEAKALA EXP FARM 434A		0995	01	MAKAWAO	20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A	0944	01	MAKAWAO	20 50	156 19	1850		VAR			C
HALEAKALA R S 338		1004	02	MAKAWAO	20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A	1075	01	MAKAWAO	20 52	156 21	1070		3A			C
HAMAKUAPOKO 485		1086	01	MAKAWAO	20 55	156 21	320		5A			
HANA AIRPORT 355		1125	01	HANA	20 48	156 01	61	8A	8A			C
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	20 45	156 13	6930		MO			
HONOKOHU 480	A	1882	04	LAHAINA	20 58	156 36	870		MO			C
HONOKOHU 493	A	1887	04	LAHAINA	21 00	156 39	135		6A			
HONOLUA FIELD 49 494	A	1914	04	LAHAINA	21 01	156 38	125		MO			C
HONOMANU GULCH 341	A	1935	01	MAKAWAO	20 47	156 14	6280		MO			
KAANAPALI AP 453.1		2307	04	LAHAINA	20 56	156 42	8	8A	8A			C
KAHAKULOA MAUKA 482.3		2453	03	WAILUKU	20 59	156 33	650					
KAHOMA INTAKE 374	A	2552	04	LAHAINA	20 54	156 38	2000		MO			C J
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	20 54	156 26	48	MID	MID			
KAILIILI 436	A	2630	01	MAKAWAO	20 51	156 16	2520		MO			C
KAILUA 446		2679	01	MAKAWAO	20 54	156 13	700	7A	7A			
KAUAAULA INTAKE 375	A	3433	04	LAHAINA	20 53	156 38	1585		WI			C
KAUPO RANCH HOUSE 259		3576	02	HANA	20 39	156 08	1020					
KEAHUA 410		3910	03	MAKAWAO	20 52	156 23	480		5A			C
KEANAE 346	A	4091	01	HANA	20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	20 42	156 27	20	8A	8A			C
KIHEI 311		4489	03	WAILUKU	20 47	156 27	90		7A			
KIPAHULU 258		4634	01	HANA	20 39	156 04	260		7A			CG
KUKUI 380	A	4887	04	LAHAINA	20 54	156 35	5788		MO			
KULA BRANCH STN 324.5		5000	02	MAKAWAO	20 46	156 20	3050	1P	7A			CG
KULA HOSPITAL 267		5006	02	MAKAWAO	20 42	156 22	3004	7A	7A			
LAHAINA 361		5177	04	LAHAINA	20 53	156 41	45	7A	7A			C
LAUNIUPOKO INTAKE 376 A		5404	04	LAHAINA	20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	20 51	156 39	220		7A			C
LUPI UPPER 442	A	5665	01	MAKAWAO	20 53	156 15	1240		MO			
MAHINAHINA 466	A	5715	04	LAHAINA	20 57	156 40	715		7A			C
MOKUPEA 475	A	6521	04	LAHAINA	20 59	156 37	1290		MO			
NAKALELE FIELD 60 497 A		6645	04	LAHAINA	21 02	156 36	340		VAR			S
OLINDA 332	A	7040	01	MAKAWAO	20 48	156 17	4127		VAR			
OLOWALU 296.1		7059	04	LAHAINA	20 49	156 37	20		7A			C
PAAKEA 350	A	7194	01	HANA	20 49	156 07	1260		VAR			
PAIA 406		7566	01	WAILUKU	20 55	156 23	170		6A			C
PANILEIHULU 259.2	A	7674	02	HANA	20 41	156 08	3570		MO			
PEAHI 488.6		7952	01	MAUI	20 54	156 17	830					C
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	20 41	156 20	6150		VAR			C
PUOHOKAMOA 2 343	A	8336	01	HANA	20 50	156 13	2980		MO			
PUUNENE 396		8543	03	WAILUKU	20 53	156 27	60		7A			S
PUU PAKI 352	A	8553	01	HANA	20 46	156 03	2160					
SPRECKELSVILLE 400.2		8688	03	WAILUKU	20 54	156 25	85		8A			C
TWIN GATES 261.3	A	8742	03	MAKAWAO	20 46	156 23	1310					
UKULELE 333	A	8744	01	MAKAWAO	20 48	156 15	5230		MO			C
UKUMEHAME 301	A	8750	04	LAHAINA	20 48	156 35	75		7A			
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	20 39	156 24	1900		8A			C
WAHIKULI 364	A	8955	04	LAHAINA	20 54	156 40	580		8A			
WAIHEU CAMP 484	A	9275	03	WAILUKU	20 55	156 31	320		6A			C
WAIHEE VALLEY 482	A	9315	04	WAILUKU	20 57	156 32	300		6A			
WAIKAMOI 449	A	9332	01	HANA	20 52	156 12	1200		MO			C
WAIKAMOI DAM 336		9335	01	MAKAWAO	20 49	156 14	4320					
WAIKAPU 390	A	9376	03	WAILUKU	20 51	156 31	370					S
WAILUA IKI 348	A	9460	01	HANA	20 48	156 09	2630					
WAILUKU 386	A	9484	03	WAILUKU	20 54	156 30	180		7A			C
WAILOPAI RANCH 256	A	9765	02	HANA	20 38	156 12	220		OC			
ISLAND OF HAWAII												
AHUA UMI 75	A	0040	05	N KONA	19 38	155 47	5220		MO			C
AMAULU 89.2	A	0150	02	HILO	19 44	155 09	1490		WI			
HAINA 214		0640	01	HAMAKUA	20 06	155 28	461		8A			C

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ISLAND OF HAWAII												
HAKALAU 142		0905	02 S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03 KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02 HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	A	1303	02 KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01 N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	R	1487	02 HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87		1492	02 S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HONAUNAU 27		1665	04 S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02 N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02 S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HUEHUE 92.1	A	2156	04 N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALOA 29	A	2327	04 SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8		2512	03 KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3		2600	01 HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04 KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04 N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04 HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02 S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03 KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAPAPALA RANCH 36	A	3300	03 KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02 HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02 PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01 HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02 PUNA		19 38	155 02	385		8A			PUNA SUGAR CO
KE-AHOLE PT 68-13		3910	04 N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIIWA CAMP 22.1		3925	03 KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04 S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02 HAMAKUA		19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A	4625	03 KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1		4680	01 N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01 HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04 N KONA		19 39	156 01	30					FAA
KONA VILLAGE 93.8		4765	04 N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222		4815	01 HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 19.9		4928	01 HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01 HAMAKUA		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02 S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05 N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02 S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01 S KOHALA		20 01	155 41	2615	3P				STATE DEPT OF L&N RES
LANIHAW 68.2		5330	04 N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	A	5761	02 HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A	6134	03 KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02 HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05 HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01 N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03 KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91		6552	02 PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03 KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A	6697	04 S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02 N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04 S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02 PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217		7204	01 HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUILO 221		7312	01 HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03 KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02 PUNA		19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02 PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIIKOU 144.1		7711	02 S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	A	7721	02 S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02 S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A	8063	02 HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04 N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-O-HONAUNAU		8552	04 S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1		8555	05 N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
S GLENWOOD		8638	02 PUNA		19 28	155 08	2130		7A			SUSAN CAREY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JUNE 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIAKEA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JUNE 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139				C	MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHAL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30		6P	6P		REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC

Station	Temperature										Precipitation																
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.	Min.							Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
											80° or Above	32° or Below	32° or Below	0° or Below													

See Reference Notes Following Station Index

LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC

Station	Temperature										Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		M.N.					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	10 or More	50 or More	100 or More
										30° or Above	Below	32° or Below	0° or Below													
PACIFIC * * * MARCH 1979																										
GUAM NAS	84.6	76.0	80.4	.4	87	22	74	26+		0	0	0	0	3.45	1.17	.89	1	.0	0		8	3	0			
* * * MAY 1979																										
GUAM NAS WASANO-LABELTHUAF	87.6	76.4	82.0	.7	90	31+	74	25+		3	0	0	0	1.60	- 3.12	.35	9	.0	0		6	0	0			
																2.15	13+	.0	0		11	7	6			
* * * JUNE 1979																										
METALANIM	87.4	73.3	80.4		89	18+	70	25+		0	0	0	0	17.29		2.72	22	.0	0		28	15	4			
* * * JULY 1979																										
GUAM NAS	87.4	76.2	81.8	.4	92	18+	72	24		9	0	0	0	7.33	- 1.77	1.31	25	.0	0		15	5	2			
MIDWAY SAND ISLAND	84.8	74.4	79.6	1.8	90	27	71	26+		1	0	0	0	5.38	1.92	2.15	31	.0	0		8	2	2			
YIGO														13.83		2.02	28	.0	0		9		6			
* * * AUGUST 1979																										
GUAM NAS	86.6	75.6	81.1	- .1	91	25	72	26+		1	0	0	0	10.37	- 1.51	1.60	17	.0	0		16	7	5			
MIDWAY SAND ISLAND	86.9	74.9	80.9	2.2	90	25+	68	29		2	0	0	0	5.16	.83	2.90	29	.0	0		9	1	1			
YIGO														13.47		2.20	17	.0	0							
* * * SEPTEMBER 1979																										
INARAJAN AG STN.														10.13		1.73	20	.0	0		19		4			
* * * NOVEMBER 1979																										
FALEASAO VILLAGE														7.49		1.06	26	.0	0		17	5	1			
INARAJAN AG STN.														10.54		1.89	26	.0	0		17	9	2			
* * * JANUARY 1980																										
AGAT														3.03		.90	11+	.0	0		6	2	0			
GUAM NAS	85.4	74.0	79.7	.3	88	24	70	6		0	0	0	0	1.21	- 3.35	.56	2	.0	0		4	1	0			
MIDWAY SAND ISLAND	68.6	60.1	64.3	- 1.4	74	2+	49	10		0	0	0	0	7.25	2.58	1.36	7	.0	0		17	4	2			
* * * FEBRUARY 1980																										
ANDERSEN AFB GUAM	81.8	75.3	78.6	.4	84	5	67	1		0	0	0	0	17.45	13.41	10.49	26	.0	0		9	4	3			
CLARK AFB LUZON	86.0	71.0	79.0	.2	91	26	70	24+		7	0	0	0	7	- .51	7	17+	.0	0		0	0	0			
GUAM NAS	85.3	74.8	80.1	.7	88	17+	72	14+		0	0	0	0	13.74	11.02	8.58	26	.0	0		8	3	3			
MIDWAY SAND ISLAND	68.6	60.2	64.5	- 1.0	72	29+	53	24		0	0	0	0	4.66	.94	1.46	26	.0	0		11	3	1			
* * * APRIL 1980																										
GUAM NAS	86.7	77.0	81.9	1.1	89	19	74	1		0	0	0	0	2.77	- 1.06	.49	9	.0	0		9	0	0			

See Reference Notes Following Station Index

LATE REPORTS DAILY PRECIPITATION

HAWAII AND PACIFIC

Station	Total	Day of Month																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
APRIL 1979																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.77																															
MAY 1979																																
MOLOKAI AP	1.11																															
WAIMANALO AP	1.73																															
JUNE 1979																																
MOLOKAI AP	1.24																															
WAIMANALO AP	1.54																															
JULY 1979																																
MOLOKAI AP	1.5																															
WAIMANALO AP	1.00																															
AUGUST 1979																																
MOLOKAI AP	1.5																															
WAIMANALO AP	1.00																															
SEPTEMBER 1979																																
MOLOKAI AP	1.4																															
WAIMANALO AP	1.00																															
OCTOBER 1979																																
MOLOKAI AP	1.15																															
WAIMANALO AP	1.00																															
NOVEMBER 1979																																
MOLOKAI AP	1.15																															
WAIMANALO AP	1.00																															
DECEMBER 1979																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															
JANUARY 1980																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															
FEBRUARY 1980																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															
MARCH 1980																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															
APRIL 1980																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															
MAY 1980																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															
JUNE 1980																																
MOLOKAI AP	1.44																															
WAIMANALO AP	1.00																															

HAWAII AND PACIFIC

See reference notes following Station Index.

LATE REPORTS DAILY TEMPERATURES

HAWAII AND PACIFIC

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII	MAX																																	
• • •	MIN																																	
JANUARY 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	76	77	75	74	78	79	78	79	80	81	77	81	87	88	72	72	76	78	80	79	78	75	76	77	78	79	81	80	80	80	80	76.7	
	MIN	57	58	61	58	58	59	61	63	65	64	65	59	59	61	61	64	64	65	66	65	63	63	64	63	62	64	63	65	62	63	63	62.2	
WAIMANALO EXP FM 795.1	MAX	75	76	76	77	78	81	79	78	78	78	78	78	78	77	74	74	74	77	77	77	75	76	75	76	76	76	76	77	76	76	76	76.4	
	MIN	60	57	56	60	59	66	55	64	70	64	67	60	60	63	67	67	64	69	70	67	66	65	67	69	69	69	68	68	69	70	70	65.2	
• • •	MAX																																	
	MIN																																	
FEBRUARY 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	80	79	80	80	75	68	78	80	78	76	72	72	73	74	76	77	76	76	74	78	78	76	79	81	78	78	80	80				76.9	
	MIN	60	67	60	60	60	61	63	64	65	66	62	61	60	61	62	61	61	65	64	55	67	65	60	63	63	62	64	66				62.1	
WAIMANALO EXP FM 795.1	MAX	76	77	74	77	78	69	77	75	76	74	74	72	71	72	75	76	72	74	72	73	75	77	79	80	75	75	77	76				75.1	
	MIN	67	69	65	67	64	61	62	64	68	65	64	62	63	61	64	60	67	67	66	66	65	69	64	60	66	66	69	69				65.1	
• • •	MAX																																	
	MIN																																	
MARCH 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	80	80	80	87	80	84	85	84	76	78	78	80	80	80	82	82	82	82	82	81	82	81	80	78	78	80	79	79	80	78	80.4		
	MIN	61	59	58	56	62	62	61	59	65	60	58	58	60	66	62	64	64	60	62	65	67	65	65	62	58	54	51	60	60	58	62	62	60.7
WAIMANALO EXP FM 795.1	MAX	76	78	74	80	83	74	82	77	76	78	79	81	81	76	77	78	78	80	83	76	78	76	78	78	78	78	80	78	80	82	79	79.0	
	MIN	69	67	64	65	61	62	63	60	68	67	67	65	63	68	69	69	69	62	64	60	69	68	68	61	58	56	68	66	59	60	64	64.8	
• • •	MAX																																	
	MIN																																	
APRIL 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	82	80	84	83	82	80	81	82	82	84	82	82	82	78	76	82	84	83	82	82	81	82	79	80	79	80	80	80	80	81		81.3	
	MIN	63	64	67	63	66	62	66	67	66	61	64	63	66	64	64	65	64	68	62	62	64	64	62	65	65	62	60	58	60	66		63.9	
WAIMANALO EXP FM 795.1	MAX	77	81	80	80	74	74	74	78	78	78	79	86	81	77	80	81	77	80	81	79	81	79	80	81	79	79	80	80	80	80		79.6	
	MIN	65	70	70	70	68	64	69	69	70	60	67	66	68	64	63	69	62	65	61	62	64	65	62	63	65	59	59	60	62	67		65.3	
• • •	MAX																																	
	MIN																																	
MAY 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	80	83	80	84	84	84	84	85	85	87	84	86	87	83	82	82	82	84	83	82	82	81	80	78	78	80	80	80	80	81		84.2	
	MIN	67	64	68	68	68	68	66	63	64	68	66	63	69	67	68	67	65	63	60	68	67	65	65	63	65	65	68	65	62	64	65	65.9	
WAIMANALO EXP FM 795.1	MAX	74	81	84	84	83	81	79	81	84	81	82	83	81	80	81	80	76	81	81	82	82	82	81	82	82	81	81	82	83	82	83	81.4	
	MIN	70	67	69	70	71	68	70	67	70	60	67	69	72	70	70	70	71	73	72	70	71	69	68	60	68	70	73	71	69	69	68	66	69.3
• • •	MAX																																	
	MIN																																	
JUNE 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	85	87	80	84	84	85	85	87	85	84	83	84	84	80	80	87	87	80	85	85	84	86	86	83	83	84	85	84	84	85	84	85.0	
	MIN	65	68	68	68	68	68	66	66	69	69	69	68	69	69	68	69	69	68	66	65	69	71	69	70	68	65	69	70	71	76	71	72	68.8
WAIMANALO EXP FM 795.1	MAX	84	83	81	82	83	82	83	83	83	82	82	81	81	81	81	83	83	83	83	83	82	82	82	82	81	82	82	81	83	80		82.2	
	MIN	66	72	72	72	72	72	67	70	72	72	70	70	70	71	73	73	73	72	71	70	72	70	72	73	70	71	73	74	73	74		71.5	
• • •	MAX																																	
	MIN																																	
JULY 1979	MAX																																	
	MIN																																	
HOLIKAI AP 524	MAX	80	86	85	84	86	87	83	83	87	87	88	85	84	85	87	90	87	84	86	90	89	87	85	85	84	85	84	86					

See Reference Notes Following Station Index

LATE REPORTS DAILY TEMPERATURES

HAWAII AND PACIFIC

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII	MAX MIN																																
KONA (KAILUA) 68.3	MAX MIN	87 72	87 70	86 71	86 71	86 71	85 70	86 72	84 69	84 69	84 71			84 71				87 76	85 75	87 74	88 74	86 74	85 74	87 70		86 71		86 70		86 68		85.8 71.6	
* * *	MAX MIN																																
DECEMBER 1979	MAX MIN																																
KONA (KAILUA) 68.3	MAX MIN			84 70	85 70	87 72	86 70	86 72	85 74	85 73	85 72	86 70		87 71				87 66	87 67	86 66	88 66	85 67	82 65	82 70	85 64	83 63		85 65		85 67			
* * *	MAX MIN																																
MARCH 1980	MAX MIN																																
KEAHOLE FT CP-13	MAX MIN							89 67	88 67	86 71	88 71	87 72	87 70	88 71	85 72	80 70	85 70	84 69	86 70	83 63	85 63	88 69	87 68	89 57	83 61	86 65	86 65		84 67	79 69	85 69	85 64	85.4 67.1

CORRECTIONS

DATE	TABLE	DIVISION	STATION	CORRECTION
December 1979	Monthly Summarized Station and Divisional Data	Island of Oahu	Nuuanu Res 4 784	Total precipitation V31.78.
December 1979	Monthly Summarized Station and Divisional Data	Island of Oahu	Paloalo Valley 718	Total precipitation V42.24.
December 1979	Monthly Summarized Station and Divisional Data	Island of Maui	Kailua 446	Total precipitation 14.80.
December 1979	Monthly Summarized Station and Divisional Data	Island of Maui	Keanae 346	Total precipitation 21.40.
February 1980	Temperature and Precipitation Extremes			Greatest total precipitation: Ookala 223, Hawaii 11.69.
March 1980	Temperature and Precipitation Extremes			Greatest total precipitation: Waiakea SCD 88.2 Hawaii 90.07

HAWAII AND PACIFIC

See Reference Notes Following Station Index

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:	Soil Type	Soil Cover	Degree of Slope
Kii-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

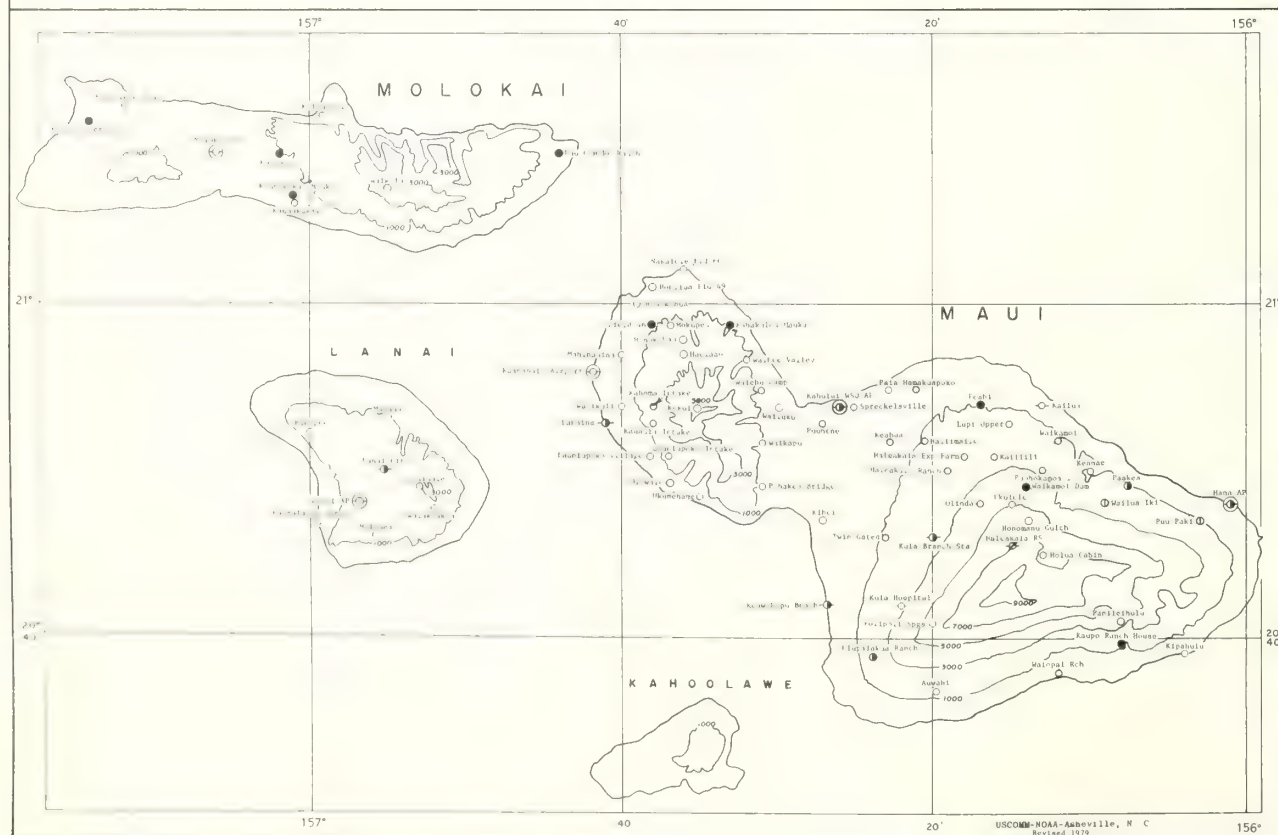
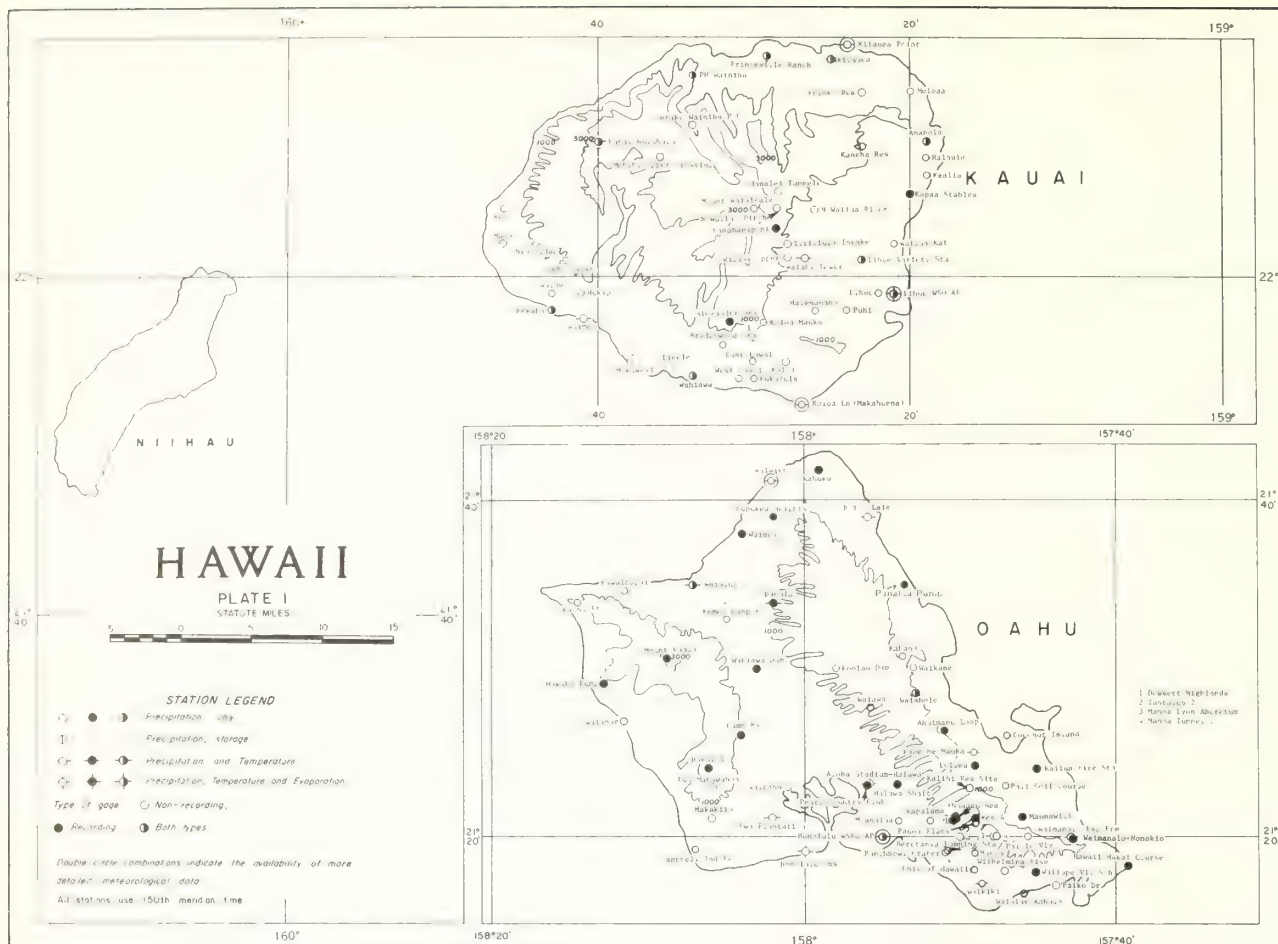
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

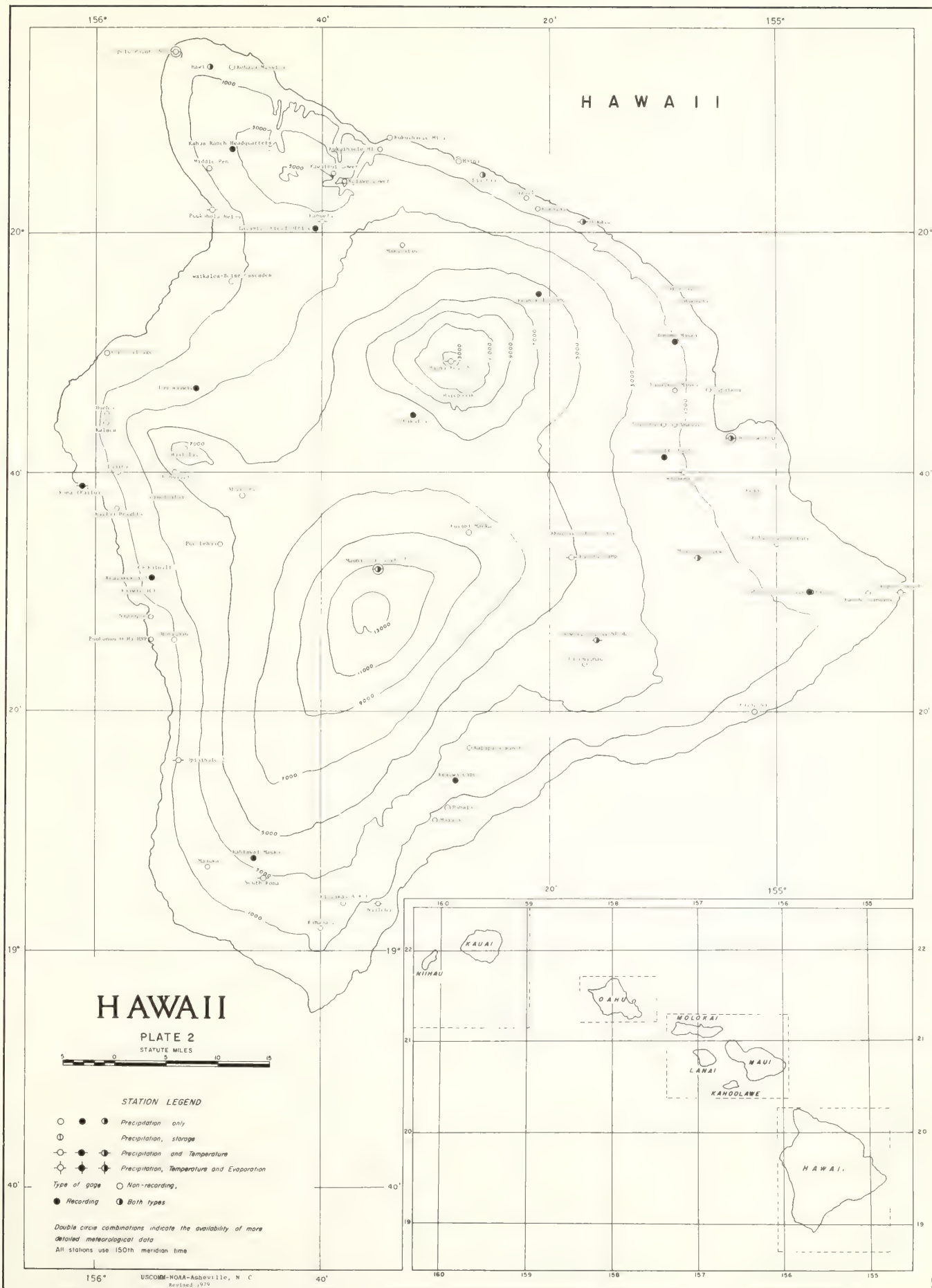
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

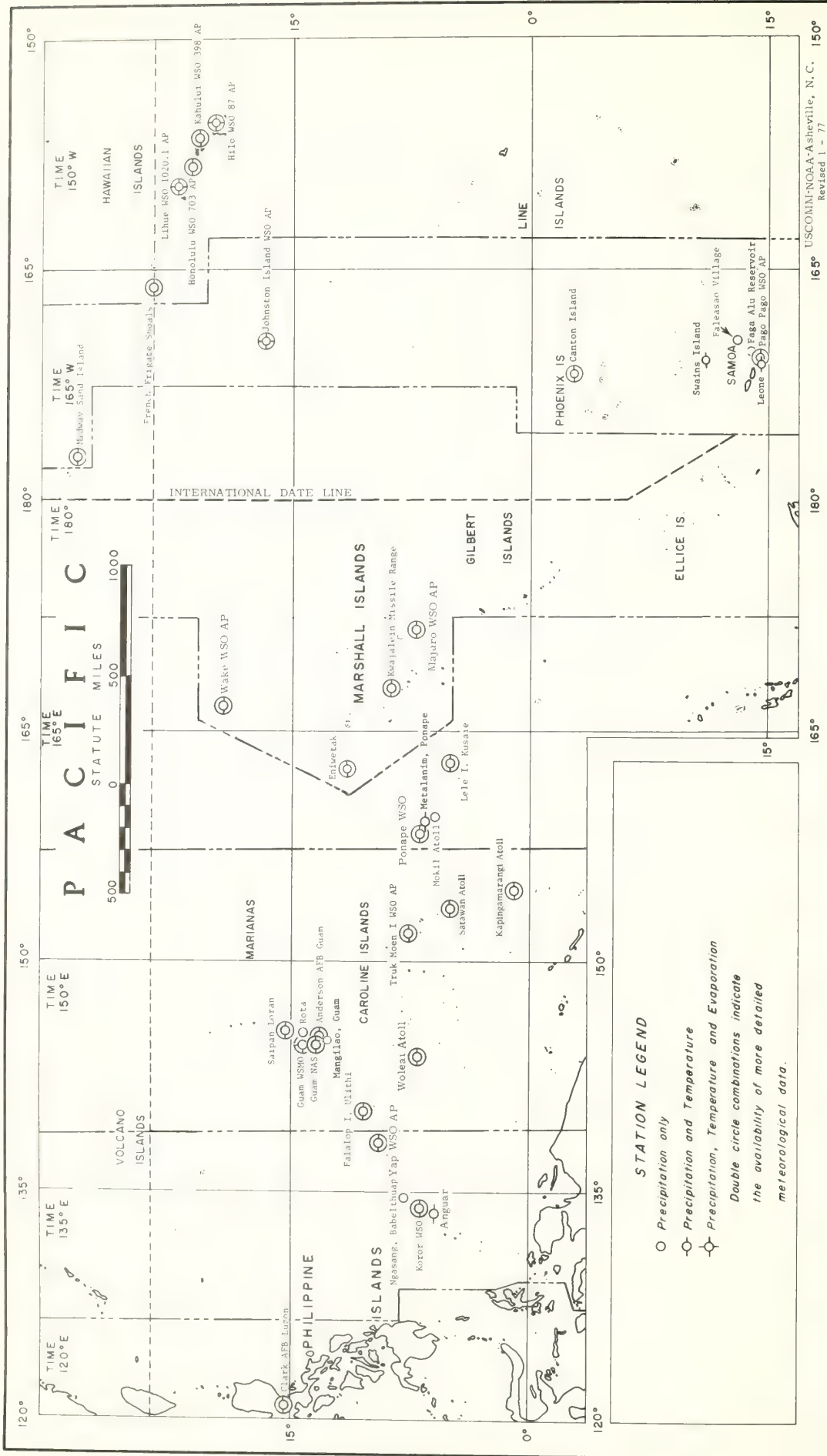
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

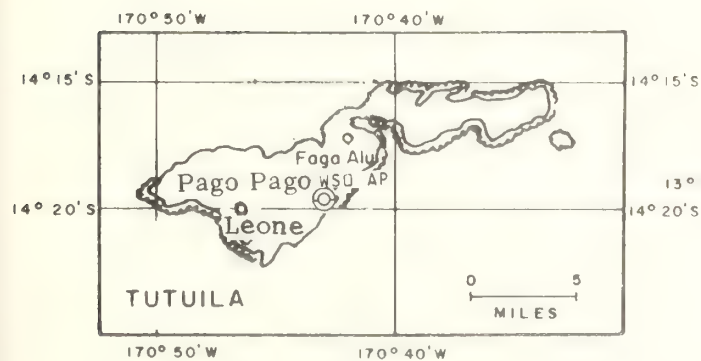
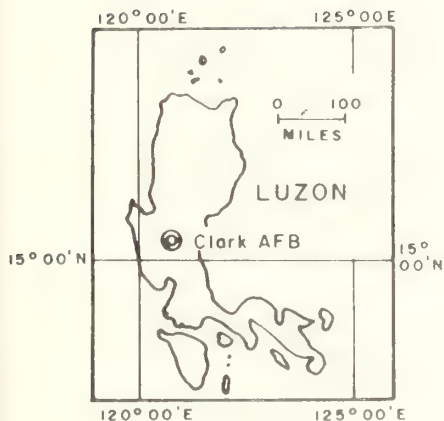
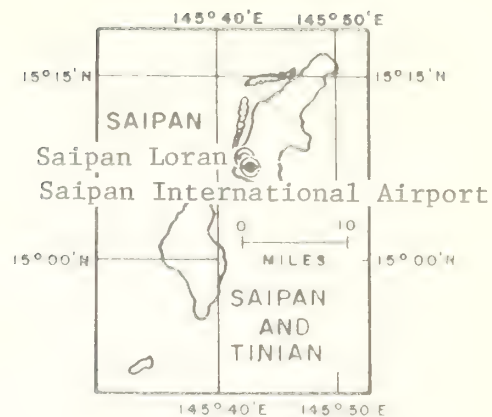
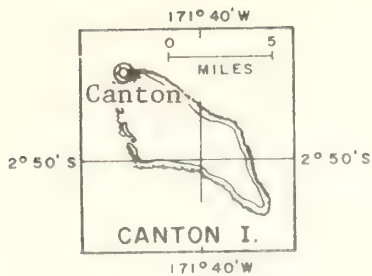
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

USCOMM-NOAA-ASHEVILLE, N.C. 1980-930

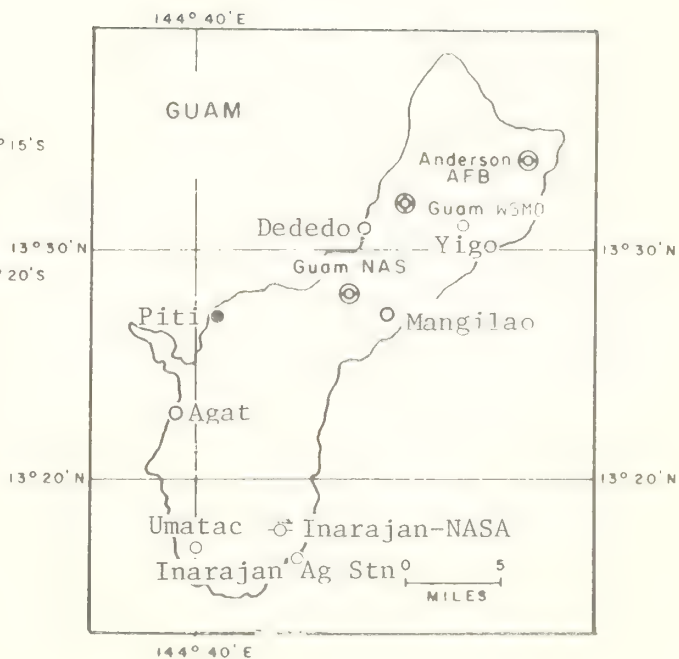


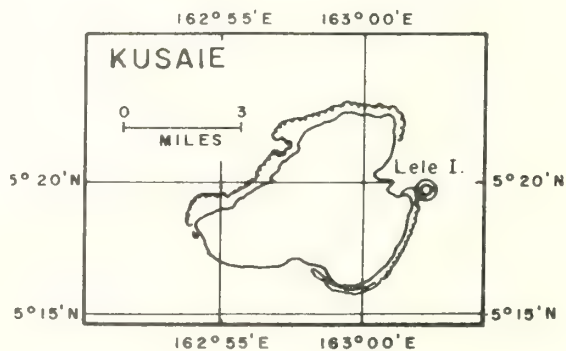
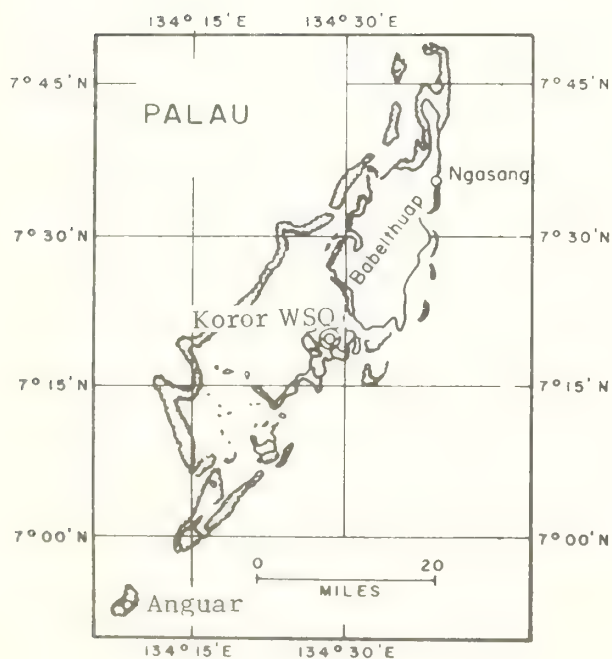
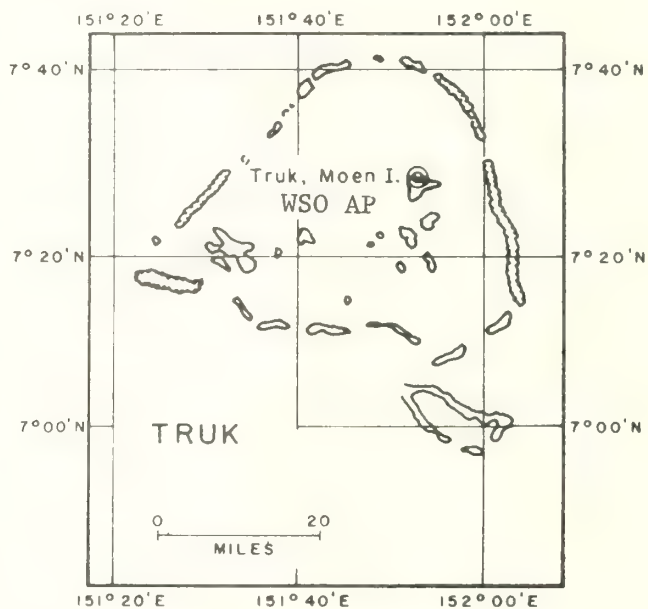
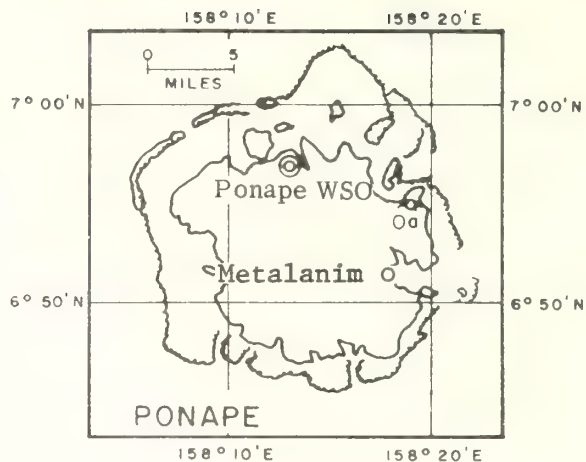
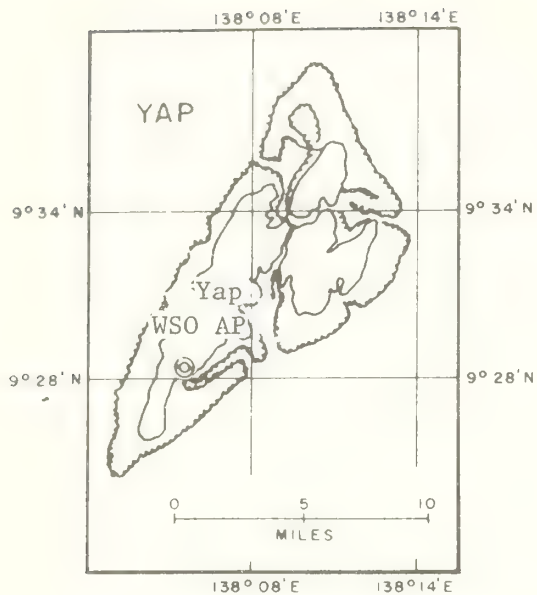




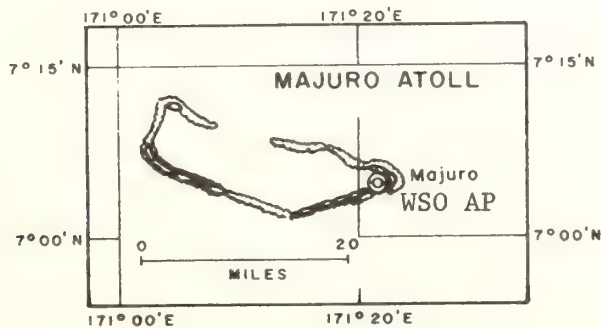
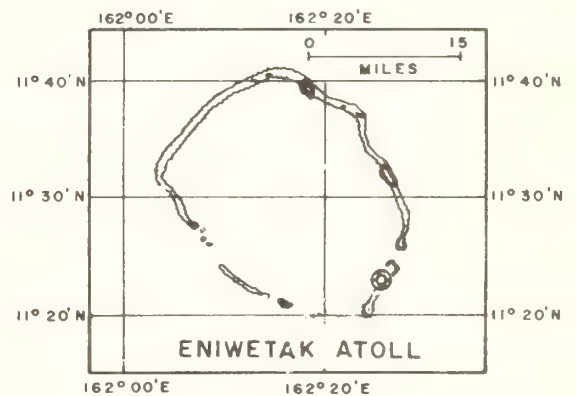
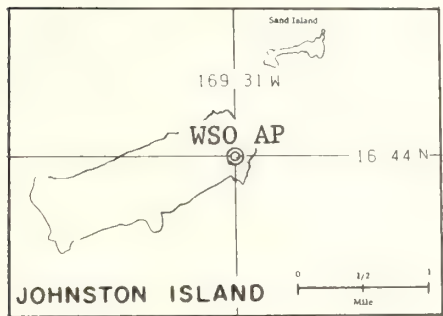
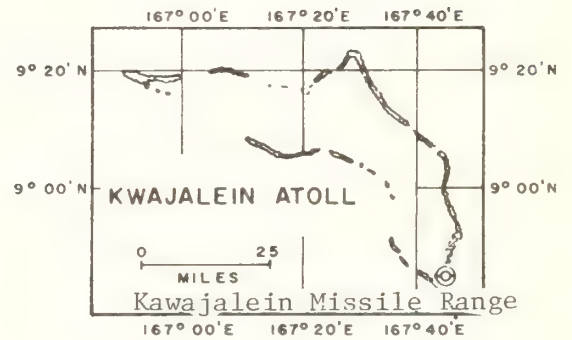
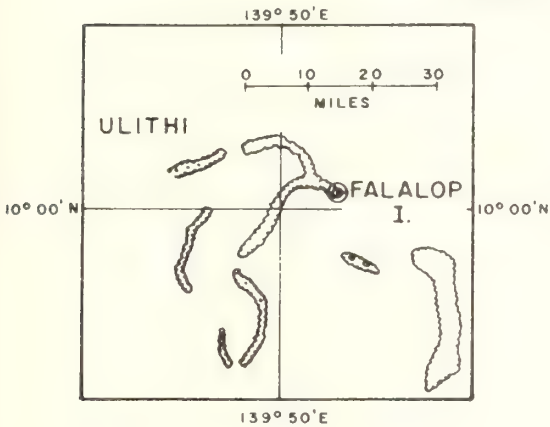
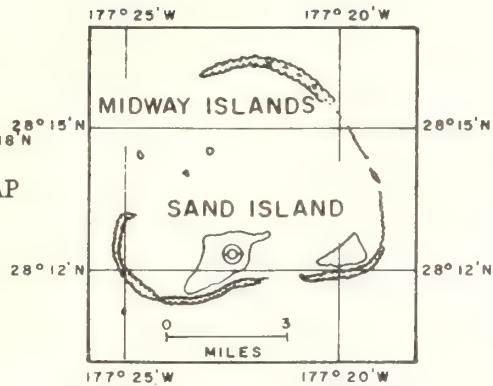
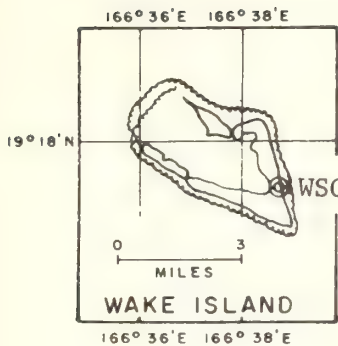


Reef





— Reef



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THIRD CLASS
BULK RATE



Climatological Data

HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: 2 STATIONS 94 DATE 25+
 LOWEST TEMPERATURE: MAUNA LOA SLOPE OBS HAWAII 36 DATE 25+
 GREATEST TOTAL PRECIPITATION: KUKUI 380 MAUI 52.00
 LEAST TOTAL PRECIPITATION: 4 STATIONS .00
 GREATEST 1 DAY PRECIPITATION: MANOA LYON ARBORETUM OAHU 3.06 DATE 07

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTH") SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01- .09	.10- .49	.50- .99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	26	SE	06	-	80	79	92	3	7	11	3	4	0	28	32	9.2	
HILO WSO 87 AP	30	0.4	5.8	17++	11	29	86	81	67	82	2	9	15	3	2	0	31	46	7.8	
HONOLULU WSO 703 AP	7	13.3	13.7	28++	7	24	76	71	55	71	13	10	0	0	0	0	23	70	6.6	
JOHNSTON WSO AP	9	13.0	13.5	33++	6	17	86	83	73	85	7	6	6	0	0	0	19	86	5.5	
KAHULUI WSO 398 AP	6	13.3	14.0	30	NE	18+	-	70	55	69	6	9	2	0	0	0	17	65	6.3	
KOROR WSO	27	3.2	7.3	25	NW	02	87	-	82	78	1	4	11	4	2	1	23	48	8.6	
KWAJALEIN MISSILE RGN	8	8.3	9.3	26++	8	05	84	85	75	77	4	10	6	5	3	1	29		8.0	
LIHUE WSO 1020.1 AP	6	14.0	14.3	25++	6	06	84	83	72	81	7	11	8	1	0	0	27	46	7.4	
MAJURO WSO AP	8	5.8	7.2	22	E	23	81	82	77	79	3	7	9	4	3	0	26	69	8.9	
PAGO PAGO WSO AP	11	9.6	12.8	27++	14	14	87	86	76	82	2	9	7	3	0	0	21	25	7.8	
PONAPE WSO		-	-	16	NE	24	93	-	77	80	0	10	8	5	7	0	30	35	8.6	
TRUK, MOEN I, WSO AP	25	2.0	8.2	26	N	19+	90	-	80	80	2	8	6	5	5	2	28	49	9.1	
WAKE ISLAND WSO AP	9	9.3	10.2	23++	7	30	82	84	63	68	0	10	2	1	1	0	14	87	4.0	
YAP WSO AP	26	0.9	7.6	24	N	17+	91	-	85	81	2	7	10	3	2	4	28	31	9.2	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JULY 1980

STATION		TEMPERATURE														PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS					DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JULY 1980

STATION	TEMPERATURE														PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
											32° OR ABOVE	32° OR BELOW	34° OR BELOW	36° OR BELOW										
HAWAII																								
KULANI CAMP 79	66.3M	51.2M	58.8M		72	28+	46	12		0	0	0	0	4.99									0	
PAHALA 21														2.57									1	
PUUKOHOLA HEIAU 98.1	89.9	69.8	79.9		93	28+	63	2		468	18	0	0	.03		1.92	7	.0	0	4	0	0	0	
SOUTH KONA 2.31														1.92		.96	31	.0	0	5	1	0	0	
WAIKAE SCD 88.2	78.5	59.3	68.9		91	9	56	20		126	1	0	0	15.72		2.24	22	.0	0	28	9	6	6	
ISLAND			72.4											5.53				.0						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
JULY 1980

STATION	TEMPERATURE													PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
JULY 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
JULY 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JULY 1980

DAY OF MONTH																																
STATION	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PAHALA 21	A	2.57						1.92	.02														36					11				
PAHOA 65		12.23	.50	.55	.30			1.31	.15	.50					.84	.25	10	.95	1.05			2.39	.61	.25	.20	10						.02
PAPAIOU 144.1		11.19	.15	.35	.11			2.90	.02	.30					.54	.70						1.86	.12	.23	.05	.37						.14
PAPAIOU MAUKA 140.1	A	12.65						4.10							2.30							3.63							2.62			
PIIHONUA 89	A																															
PUUKOHOLA HEIAU 98.1		.03						.03																								
PUU LEHUA 73	A	4.35																														4.35
PUUHONUA-O-HONAUNAU		1.90	.12	.08	.10	.10					20						.27	.02				.12	.12		.03							.07
S GLENWOOD		14.83	1.04	.13	1.14	.77	.27	.41	.11	.66	.52	.88	1.07	.06	.23	.71	.10	.63	1.28	.12			.56	1.13	.09	.12		.53		.04		.10
SOUTH KONA 2.31		1.92				.10			.11			.19			.07		.10	.07	.03	.07			.02		.07		.24		1.33	.03	.71	.28
UPOLU POINT USCG 159.2		1.59	.02			.02	.15	.01	.02	.07		.14	.03		.01		1	.05	.15			.05			.02	.06	.03	.06	.25	.27		.03
WAIKAE SCD 88.2		15.72	.16	.47	.15	1.26	.17	1.31	.11	.38	.21	1.29	.71	11	.29	.38	.22	.49	1.80			.10	.25	.64	2.24	.10	.08	.21	.17	.57		
WAIKALOA-BOIS CAS 95.8		.22		.05														.04				.02							.07			.09

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
JULY 1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
AASUFOU		13.52	15	36	1.07		10	60	1																							
AFONO		15.25	27	10	.96		07	40	20																							
FALEASAO VILLAGE		15.31	58	18	.81		05	01																								
JOHNSTON IS. WSO AP	R	1.58	1	08	1		05	05																								
MIDWAY SAND ISLAND																																
PAGO PAGO WSO AP	R	4.14	13	15	03		56	03																								
WESTERN PACIFIC ISLS. NORTH OF 12°N																																
AGAT		13.44			53		27	64	1.55		53	2	00	19																		
ANDERSEN AFB GUAM		11.81	14	1			27	39	1.25		10		02																			
CARR AFB GUAM		14.23	25		01		27	22	1.00		1.28	20																				
DEDEO		9.69	11	01	01		27	53	1.62		09	06	1																			
GUAM WSO	R	10.93	14	01	07		26	25	1.37		23	01	02																			
INARAJAN AG STN		13.50	95	64	13		24				16	80	90																			
INARAJAN - NASA		10.04	41		01		38	1.57			42	34	08																			
MANGI AG		10.21	1		08		42	1.00	.90		20	24	1																			
SAIPAN LORAN																																
UMATAK		16.27	10				44	10	2.00		2	00	1.85	35																		
WARE ISLAND WSO AP	R	2.71																														
YICO		12.77	44		05		70	1	03	70		1	06	79																		
CAROLINE AND MARSHALL ISLANDS																																
FALALOP I ULITHI ATOLL																																
KAPINGAMARANGI ATOLL																																
KOROR WSO	R	12.40	03	4	00	15		12																								
KWAJALEIN MISSILE RON	R	13.75	03		1	31		07	36	3	82																					
LELE I KOSRAE																																
MAJURO WSO AP	R	8.48	03	1	17	84		03	12	16		28	1	1	49																	
METALANIM		14.28	17		18		3	26	05	.46		23	84																			
PONAPE WSO	R	15.87	1	45	1	0	1	62			1	47	36	23																		
SATAVAN ATOLL	R	17.26	20	1	57	12		1	16	3	01	01																				
TRUK MOEN I WSO AP																																
WOLEAI ATOLL	R	17.84	3	26	.41	30		2	21	13	39		65	05	03																	
YAP WSO AP																																

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DAILY TEMPERATURES

HAWAII AND PACIFIC
JULY 1980

STATION		DAY OF MONTH																															AVERAGE
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HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	73 54	67 57	66 50	70 53	70 56	63 57	69 59	74 54	75 55	72 57	69 58	71 56	75 59	74 54	74 53	71 59	70 57	70 60	75 53	69 58	68 56	78 60	72 60	73 58	72 56	74 57	73 58	74 58	74 53	76 57	68 55	71.6 56.4
KILAUEA POINT 1133	MAX MIN	84 70	85 65	82 71	81 65			82 60	81 69	85 74	85 70	81 71		85 70	86 71	86 71	84 66	83 61				86 60	86 72	86 72	86 73	85 70			86 61	84 69	84 73	86 72	84.3 68.5
LIHUE WSO AP 1020.1	MAX MIN	82 75	80 71	81 68	82 68	81 74	82 71	83 73	84 78	83 76	82 73	81 73	82 72	82 75	82 73	83 74	77 73	81 72	82 74	82 74	82 71	83 73	83 76	84 76	83 76	85 76	84 75	83 76	84 75	84 77	83 76	82.4 73.9	
NIU RIDGE 1035	MAX MIN	85 69	84 66	81 66	83 66	86 66	83 68	84 64	84 68	85 69	85 67	86 67	86 66	87 68	87 65	83 66	87 67																
WAIHI LOWER 1054	MAX MIN	80 66	78 66	78 66	78 64	79 67	78 66	79 67	80 68	79 68	79 67	80 68	79 67	80 68	79 68	80 68	79 68	75 67	72 66	77 64	78 66	78 68	79 67	78 70	78 68	78 68	78 70	78 68	78 68	80 60	80 70	78.5 67.1	
WAIIEA 947	MAX MIN	80 68	88 68	89 67	88 68	80 66	87 71	86 68	89 69	89 72	89 75	87 71	86 69	88 70	82 65	80 67	80 70	84 70	86 72	87 70	89 68	88 70	89 69	89 70	88 68	89 70	92 68	91 70	90 73	91 73	88 69	88 70	87.0 69.5
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	83 73	85 72	84 72		83 71	83 72	84 70	85 73	85 73	86 73	85 73	86 74	87 76	87 74	87 73	87 72	84 70	85 72			86 70	85 74	84 75	86 71	87 76			83 76	82 75	83 73	85 73	84.9 72.9
B Y U LAIE 903.1	MAX MIN	86 75	81 71	81 71	82 72	81 73	82 72	82 71	80 71	82 73	82 71	80 71	81 74	82 74	82 76	82 73	82 73	82 73	81 73	81 74	81 76	82 74	82 74	83 73	83 74	84 74	83 73	83 74	81 72	82 71	81 74	83 74	82.1 73.2
HONOLULU OBSERV 702.2	MAX MIN	89 71	88 71	86 69	86 65	87 68	87 69	87 70	87 70	90 71	90 71	87 69	87 69	87 69	88 70	87 71	90 71	88 72	89 73	89 71	90 68	90 68	90 71	90 74	90 74	91 74	89 69	87 71	90 69	90 70	91 69	88.6 70.2	
HONOLULU WSO AP 703	MAX MIN	88 74	86 72	86 72	86 72	87 73	87 74	87 74	89 73	88 75	87 74	87 72	87 73	90 75	87 76	89 75	87 76	89 75	87 75	88 75	88 70	89 73	89 73	89 76	89 77	89 76	88 75	88 73	88 74	88 75	86 72	87.8 74.0	
KANEHE MAUKA 781	MAX MIN	86 78	82 72	81 73	81 71	82 75	82 77	80 73	81 76	86 74	82 72	80 72	83 72	84 73	84 76	83 75	81 74	81 75	82 77	82 75	81 77	82 77	83 75	82 76	83 75	83 75	84 76	84 76	82 74	82 75	83 74	84 77	82.3 74.7
KII-KAHUKU 911	MAX MIN																																
MANOA LYON ARBORETUM	MAX MIN	78 69	76 68	75 68	76 66	78 67	77 67	76 69	86 70	79 70	80 69	75 68	79 68	78 68	84 69	80 69	84 70	76 69	78 69	80 69	76 70	79 69	78 69	77 70	78 74	81 69	83 69	78 70	81 69	82 69	82 70	83 69	79.1 69.0
OPAULA 870	MAX MIN	85 69	85 69	85 68	79 66	78 69	75 69	85 70	86 70	85 70	85 69	85 68	79 68	83 69	85 69	86 70	85 69	85 70	85 70	78 67	80 67	81 68	80 69	80 70	82 70	79 67	80 69	81 70	80 69	80 69	79 67	82 68	82.0 68.9
PUU MANAWAHUA 725.6	MAX MIN	79 64	75 65	76 64	77 65	77 64	77 67	78 65	81 68	79 65	79 66	78 67	79 66	82 67	79 67	81 66	79 67	78 67	79 67	80 66	82 67	82 67	81 67	81 67	81 67	81 67	78 67	82 67	80 67	81 67	82 67	79.5 66.1	
WAILUA 847	MAX MIN	85 68	86 69	83 66	80 62	82 64	82 64	80 69	87 70	90 71	87 66	85 66	84 70	84 66	84 66	90 70	88 71	87 73	87 73	84 66	84 66	86 66	81 68	84 68	83 70	88 68	84 68	82 70	86 68	87 70	90 71	85.1 67.8	
WAIKIKI 717.2	MAX MIN	88 73	88 72	87 71	87 71	86 72	86 72	86 71	90 74	90 74	87 72	87 69	87 72	88 72	87 73	87 73	88 73	88 73	88 74	88 74	89 74	89 74	89 75	89 75	89 75	88 75	88 72	88 74	88 73	89 74	89 74	88.0 72.4	
WAIMANALO EXP FM 795.1	MAX MIN	83 73	83 71	82 71	81 69	82 70	81 73	82 72	83 74	83 74	83 73	81 72	83 72	84 73	81 74	83 74	82 75	83 73	83 73	83 74	82 72	83 72	84 74	83 75	84 75	84 75	84 74	83 74	83 74	83 74	85 73	82.8 73.0	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	85 71	86 70	84 70	84 70	84 70	80 71	80 68	84 70	89 69	85 71	84 70	81 70	81 71	86 69	83 71	85 72	84 72	82 73	81 73	87 71	85 71	84 72	85 71	85 72	82 73	82 70	82 70	86 71	87 70	83 73	85 72	83.9 70.9
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	80 66	81 65	79 65	77 63	80 63	81 66	80 63	80 68	85 66	84 67	80 64	83 64	80 64	80 66	82 66	82 67	80 65	82 69	82 67	82 67	82 67	83 68	83 68	83 68	83 66	84 67	80 66	82 65	82 65	80 66	84 65	81.5 65.9
LANAI CITY 672	MAX MIN	77 64	78 64	76 64	78 62	76 63	74 65	76 66	82 65	79 64	77 65	75 62	75 64	73 64	78 63	75 65	76 66	79 64	76 66	72 67	72 65	76 65	77 66	76 65	77 66	77 66	75 66	73 65	77 64	77 64	78 66	78 66	76.3 64.6
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	67 42	64 46	65 47	58 44	64 44	60 44	67 49	63 50	70 51	69 46	65 47	61 45	62 46	66 44	64 46	70 55	66 50	65 51	63 44	62 43	61 44	64 48	64 48	65 55	68 48	64 48	63 44	65 46	66 46	64 41	65 44	64.5 46.6
HANA AIRPORT 355	MAX MIN	84 71	84 69	85 70	84 68	85 69	85 72	80 77	85 76	84 73	84 71	82 70	82 70	85 78	82 74	83 77	84 70	81 70	85 71	84 72	82 78	83 77	85 80	84 76	84 76	85 76	85 74	82 76	85 76	85 74	85 77	84 77	83.8 73.6
KAANAPALI AP 453.1	MAX MIN	87 70	86 69	89 69	86 68	85 75	88 70	83 68	90 68	80 74	85 71	88 71	88 70	86 66	87 67	87 67	85 70	87 68	90 72	85 69	87 68	85 68	90 70	89 70	89 71	89 71	89 73	88 73	88 71	89 71	89 71	87.5 69.5	
KAHULUI WSO 398 AP	MAX MIN	91 76	89 74	87 73	89 73	86 74	83 74	91 75	94 74	90 74	85 74	87 74	89 74	88 74	90 74	88 74	88 74	89 74	88 74	86 74	86 74	87 74	91 74	91 76	90 75	89 75	90 75	89 74	91 74	92 74	88 75	88.7 73.7	
KAILUA 446	MAX MIN	78 67	77 67	77 66	76 66	77 64	76 66	74 67	78 64	79 72	79 72	76 68	77 70	76 67	78 68	78 66	76 66	77 66	75 69	75 69	78 66	78 66	78 66	78 66	78 66	77 66	77 66	75 67	75 67	78 68	79 68	77.0 67.0	
KEAWAKAPU BEACH 260.2	MAX MIN																																
KULA BRANCH STN 324.5	MAX MIN	75 58	75 57	76 56	73 57	73 56	73 57	78 56	75 61	76 62	77 57	74 58	72 57	70 59	74 57	74 56	74 57	75 58	78 61	74 58	73 58	76 58	74 69	77 58	78 59	78 59	78 59	77 57	76 58	77 59	76 55	74.8 58.2	

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HAWAII AND PACIFIC
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STATION	DAY OF MONTH																															AVERAGE	
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HAWAII																																	
KILA HOSPITAL 267	MAX MIN	73 56	75 56	74 57	74 55	75 56	71 55	76 57	74 57	78 59	75 57	73 57	74 57	72 57	73 57	74 56	72 55	73 58	77 58	76 59	72 58	76 57	73 56	75 57	76 57	75 58	74 58	74 58	74 57	74 58	75 58	74.2 57.0	
LAHAINA 361	MAX MIN	89 69	88 70	87 68	86 68	88 69	87 68	88 72	90 71	89 71	89 67	89 68	87 69	88 71	89 71	89 68	85 68	90 68	90 70	89 71	90 70	90 70	90 71	90 69	90 68	92 67	86 73	89 70	88 70	89 68	90 69	88.7 69.4	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	73 55	66 56	69 54	65 54	66 52	70 63	80 59	76 57	75 58	69 56	73 56	70 57	73 54	71 54	70 56	71 55	72 55	74 58	70 56	74 55	74 57	74 57	74 56	72 55	74 54	75 56	75 59	69 56	74 56	67 58	71 54	71.8 56.1
HILO WSO AP 87	MAX MIN	87 72	86 71	85 69	86 70	86 69	86 67	88 74	89 73	86 73	85 71	83 71	86 71	89 72	83 72	87 73	87 69	88 71	88 73	87 71	87 70	83 71	84 69	84 71	83 68	81 68	83 70	79 71	83 70	82 69	83 69	83 69	85.1 70.5
KAINALU 73.2	MAX MIN	79 67	80 66	79 65	75 62	77 64	74 62	83 66	81 66	79 69	78 67	83 65	77 64	76 66	78 66	80 66	78 67	74 66	80 67	82 64	79 66	79 66	80 65	79 66	80 66	78 66	79 63	79 66	80 66	80 67	79 65	78.8 65.6	
KAPOHO BEACH 93 11	MAX MIN	90 70	87 70	89 72	87 67	85 68	84 69	86 70	91 73	87 72	86 69	85 69	83 69	86 68	86 71	87 72	86 70	88 72	88 70	88 70	87 70	87 72	88 73	88 72	86 68	83 69	84 71	85 70	86 69	85 70	86 72	86.4 70.3	
KE AHOLE PT 68-13	MAX MIN	80 73	92 72	79 71	80 71	83 72	83 72	83 76	89 78	89 75	82 75	81 72	82 72	93 72	84 74	81 75	93 74	84 73	83 74	84 73	86 72	84 73	90 74	86 63	92 75	94 74	85 71	87 74	89 75	89 73	89 75	89 75	85.8 73.2
KULANI CAMP 79	MAX MIN		62 54	64 52	63 51	59 47	62 47	71 56	68 56	70 49	66 53	64 51	65 46		63 52	68 53				67 52	67 48	66 48	65 52	68 52	68 49	67 48		72 54	72 53	66 47	67 49	68 49	66.3 51.2
LAAMULO FLD OFF 191.1	MAX MIN	78 63	78 61	77 61	78 57	81 57	79 56	83 58	79 63	79 63	69 62	74 55	73 55	78 56	79 55	78 62	75 61	78 61	76 63	77 63	76 61	78 62	79 64	78 62	79 61	75 61	78 58	74 61	75 59	79 62	78 56	79 60	77.3 60.0
MAUNA KEA OBS 111 2	MAX MIN																																
MAUNA LOA SLOPE OBS	MAX MIN	61 42	59 43	55 40	52 38	53 37	59 39	56 40	57 43	59 41	56 41	54 39	50 38	58 39	59 43	62 43	62 45	62 43	63 41	63 41	51 37	57 37	52 37	58 36	52 37	57 36	54 37	55 38	57 39	57 40	61 45	53 42	56.6 39.9
MOUNTAIN VIEW 91	MAX MIN	79 61	77 64	79 61	72 59	75 59	74 59	82 59	82 65	83 65	75 64	77 64	74 64	78 64	78 63	74 65	77 63	80 63	81 64	81 64	81 62	81 62	78 64	78 64	80 63	80 62	80 64	76 62	80 62	79 65	79 65	78 63	78.3 72.8
NAALEHU 14	MAX MIN	81 68	79 69	79 67	82 71	82 70	80 69	87 66	79 70	82 69	77 67	80 67	81 70	80 69	80 67	78 68	77 66	78 67	82 68	82 69	84 69	84 67	82 69	83 70	84 71	82 65	84 70	84 72	82 66	81 67	82 62	79 61	81.2 67.8
OOKALA 223	MAX MIN	81 64	82 67	81 67	78 68	80 69	80 67	81 71	77 63	83 66	81 66	79 67	78 67	80 69	81 69	80 70	81 69	79 69	80 69	81 69	82 69	81 68	80 70	83 69	84 70	82 68	80 67	81 67	80 65	81 66	81 66	81 67	80.6 67.7
OPIHIHALE 2 24.1	MAX MIN	79 63	81 60	78 59	82 61	79 59	83 60	82 63	81 63	77 63	80 63	80 60	81 60	84 61	81 61	81 63	80 62	81 59	84 60	82 59	81 60	83 60	83 66	80 63	83 63	79 63	83 62	79 62	83 63	83 61	84 61	82 58	81.3 61.4
PUKOHOLA HEIAU 98.1	MAX MIN	86 73	89 63	89 68	88 68	88 65	88 65	93 70	91 72	89 71	90 70	90 69	89 71	88 72	87 70	90 70	91 72	91 68	90 72	92 70	89 69	91 71	91 70	90 70	93 71	92 71	89 71	88 72	93 71	91 69	90 69	89.9 69.8	
SOUTH KONA 2.31	MAX MIN	82 60	78 62	79 59	73 57	76 59	75 57	86 64	87 60	91 58	75 61	71 59	73 59	75 61	83 59	85 59	74 61	73 61	81 62	81 57	82 56	74 59	81 57	82 57	75 58	83 57	81 60	78 61	73 60	76 60	73 60	78.5 59.3	
UPOLO POINT USCG 159.2	MAX MIN	86 73	86 69	85 70	85 69	85 71	85 68	86 69	87 74	86 72	85 70	83 69	82 70	86 70	86 70	86 69	86 70	85 69	85 71	86 70	90 72	86 71	85 72	86 74	87 70	86 67	83 71	86 71	85 72	86 72	87 71	87 68	85.6 70.5

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DAILY TEMPERATURES

HAWAII AND PACIFIC
JULY 1980

STATION		DAY OF MONTH																															AVERAGE	
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PACIFIC																																		
* * *																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	86 79	86 76	85 79	86 76	86 77	86 78	86 78	87 79	87 79	87 80	86 78	87 79	87 78	87 79	87 79	86 76	85 74	85 77	86 77	86 77	85 76	86 78	86 80	87 80	87 80	86 80	86 80	87 79	88 79	86 77	87 78	88 80	86.4 78.1
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	84 78	84 78	85 76	83 72	85 71	85 70	85 69	85 79	84 80	85 80	85 73	87 72	86 70	80 73	81 75	81 76	82 76	84 74	86 72	84 73	82 75	80 76	83 74	85 79	84 78	83 78	84 75	86 74	81 75	79 74	80 76	83.5 74.9	
* * *																																		
WESTERN PACIFIC ISL, NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	84 78	85 79	86 79	86 79	81 77	83 75	85 76	84 77	85 77	85 78	84 78	83 78	83 77	84 79	85 80	84 76	83 71	85 79	85 78	86 76	85 78	84 79	84 75	85 77	85 78	85 80	85 80	85 79	85 77	86 77	87 78	84.6 77.6	
CLARK AFB LUZON	MAX MIN																																	
GUAM NAS	MAX MIN	89 78	89 76	89 77	90 77	85 76	86 76	88 77	91 76	91 76	91 77	86 77	90 76	88 77	87 78	89 78	88 76	85 76	89 79	90 79	90 76	89 77	88 77	86 74	89 78	90 78	90 78	91 78	91 78	91 77	90 77	89 78	88.9 77.0	
GUAM WSMO	MAX MIN	85 75	85 71	87 74	86 75	83 72	84 70	86 74	85 74	86 70	87 75	85 75	84 74	84 74	86 74	86 73	85 73	84 75	86 76	86 75	86 72	86 76	86 74	85 72	88 71	88 74	87 74	89 74	88 71	88 69	87 69	87 70	86.0 73.1	
INARAJAN - NASA	MAX MIN	87 77	87 76	87 73	86 74	87 70	87 70	85 74	87 73	86 73	87 75	87 76	82 74	86 74	87 73	86 72	86 73	86 72	86 73	87 74	87 73	87 73	87 73	87 73	87 73	87 73	87 76	87 76	88 76	87 75	88 73	89 73	89 73	86.8 73.6
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	91 77	90 78	91 77	92 79	92 79	92 78	89 78	91 77	90 77	91 75	91 76	92 78	92 76	92 79	93 77	92 77	91 76	91 78	92 78	90 78	92 78	93 80	93 78	93 79	92 76	92 76	92 77	92 76	91 77	91 69	88 74	91.4 77.1	
* * *																																		
CAROLINE AND MARSHALL ISLANDS																																		
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 75	79 72	86 73	86 70	88 77	85 75	87 75	87 79	89 77	91 76	85 73	86 75	87 75	88 76	87 76	89 77	89 74	85 74	85 74	86 77	88 78	89 77	82 74	87 78	88 77	89 75	85 72	88 74	89 76	88 73	89 74	88 78	87.1 75.1
KWAJALEIN MISSILE RGN	MAX MIN	88 80	87 81	88 74	89 78	88 76	87 74	82 73	87 76	85 75	88 77	89 79	88 80	87 77	87 79	88 79	89 75	85 76	85 76	87 76	88 77	87 75	88 80	89 79	88 76	88 78	87 78	89 78	87 75	88 76	89 80	89 77	87.5 77.1	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	87 79	87 75	83 74	86 76	87 78	88 76	84 75	88 78	83 75	86 76	88 80	85 75	84 76	87 79	88 76	82 74	86 76	87 74	85 77	90 75	88 79	87 75	85 75	88 77	88 78	87 77	87 76	88 79	86 74	87 78	86.5 76.5		
METALANIM	MAX MIN	90 75	89 74	90 76	81 74	90 74	86 74	88 75	90 76	90 76	82 73	89 74	89 73	90 74	85 76	87 74	89 76	90 74	89 74	88 73	89 74	90 73	88 73	90 74	89 73	89 75	90 74	89 72	90 73	87 74	88 72	89 72	88.4 73.9	
PONAPE WSO	MAX MIN	91 75	90 74	92 74	85 74	91 77	88 74	90 75	91 77	92 75	80 73	91 73	90 74	89 74	86 75	89 74	92 74	90 73	85 74	89 72	90 73	89 74	88 73	90 73	87 74	89 73	91 74	92 72	86 73	81 73	90 72	90 72	88.8 73.8	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	87 75	84 74	87 73	87 73	84 74	87 73	88 77	86 75	88 76	88 75	89 75	84 74	88 74	83 73	83 75	89 74	88 78	87 75	81 72	87 74	88 76	89 75	88 75	89 74	88 74	89 75	89 74	87 75	88 75	89 76	88 75	87.0 74.6	
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	85 71	87 74	86 73	85 73	86 74	86 76	87 74	88 77	87 73	88 72	82 74	88 72	86 73	81 73	89 74	85 74	87 74	84 72	88 76	87 75	88 72	88 74	88 77	88 74	89 75	88 76	88 77	88 77	89 76	88 76	89 74	86.8 74.3	

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DAILY SOIL TEMPERATURES

HAWAII
JULY 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
WAILUKU 911	(IN)																																	
	4	MAX	-	-	-	-	-	-	-	-	-	-	87	83	84	85	87	86	84	86	87	88	88	85	87	85	87	82	83	85	85	87	-	
		MIN	-	-	-	-	-	-	-	-	-	-	75	77	77	77	78	79	78	78	78	77	79	79	79	79	78	78	77	77	78	79	-	
MANA LION ARBORETUM	(IN)																																	
	4	MAX	78	76	74	75	75	76	76	78	77	78	76	75	76	79	80	81	78	77	75	76	76	76	75	74	78	78	78	78	79	81	80	77.3
		MIN	75	74	73	73	72	74	74	74	75	76	74	74	75	74	77	77	75	75	75	74	75	75	74	74	76	76	75	74	76	76	74.7	
WAILUKU 847	(IN)																																	
	4	MAX	92	100	93	-	-	-	-	91	102	102	99	-	-	-	99	103	98	99	-	-	-	99	97	100	102	-	-	-	101	98	104	-
		MIN	75	75	74	-	-	-	-	75	75	77	76	-	-	-	77	79	80	81	-	-	-	78	78	78	79	-	-	-	77	78	79	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
JULY 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324.5	(IN)																																	
	II	MAX MIN	71 69	72 69	74 70	- -	- -	- -	74 69	72 70	74 71	75 71	74 71		- -	73 70	70 68	72 69	72 68	74 70	- -	- -	74 70	72 69	73 70	76 70	76 70	- -	- -	73 69	74 70	74 71	76 71	73.4 69.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JULY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
THE WIND AT 10.0 1	EVAP	34	31	37	24	38	36	25	32	21	31	35	35	32	31	27	35	22	15	38	30	36	31	30	31	22	33	36	29	34	31	40	9.62
	WIND	206	245	220	202	208	236	239	161	187	198	227	231	220	154	182	178	207	232	223	176	194	176	176	176	176	176	176	176	176	176	176	176
	MAX	82	84	85	79	85	87	83	84	85	86	83	83	84	83	87	86	77	78	85	84	85	85	85	85	82	83	84	82	84	84	86	83.5
	MIN	67	65	65	57	64	65	65	67	71	67	65	66	64	64	64	66	66	72	76	65	66	65	65	65	67	66	73	66	65	65	64	66.1
ISLAND OF OAHU																																	
HONOLULU OBSERV 702 2	EVAP	41	42	31	32	34	45	37	45	35	50	45	40	35	45	35	45	45	36	45	45	53	45	35	45	57	45	40	45	45	35	40	12.93
	WIND	27	33	25	28	27	29	30	24	21	30	28	27	21	26	19	26	32	40	32	29	25	25	28	33	40	25	19	24	29	25	25	852
	MAX	95	95	94	90	91	90	94	98	93	97	92	89	90	89	90	95	92	92	95	96	95	95	94	95	95	94	90	93	92	92	93	93.1
	MIN	68	70	68	66	67	68	68	71	71	70	67	69	69	71	70	68	68	68	70	68	68	69	71	70	69	68	72	69	69	69	69	69.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
JULY 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP WIND MAX MIN	.37 201 218 87 75	.34 201 178 90 75	.30 156 173 90 76	.36 174 30 87 73	.39 174 34 89 70	.35 195 38 92 72	.32 185 144 92 68	.32 145 32 90 72	.31 150 202 88 72	.40 183 253 90 71	.39 171 164 90 74	.35 134 45 91 73	.37 186 12 93 76	.45 155 199 82 69	.29 156 228 80 70	.43 162 221 80 69	.17 171 182 82 70	.42 221 101 95 72	.40 227 50 93 75	.30 154 18 95 74	.39 157 216 85 70	.27 161 179 79 70	.38 193 124 92 72	.34 181 154 92 72	.39 176 227 87 70	.20 177 170 85 72	.30 130 88 90 71	.35 99 119 89 70	.35 93 119 90 70	.31 90 454 87 70	.22 153 87 70	10.53 5111
PAGO PAGO WSO AP	EVAP WIND MAX MIN	.15 218 87 75	.22 178 90 75	.26 173 87 76	.10 30 87 73	.14 34 89 70	.13 38 88 72	.18 144 89 72	.12 32 88 70	.29 202 90 71	.36 253 88 72	.22 164 90 74	.18 45 91 73	.12 40 93 76	.12 199 82 69	.26 228 80 70	.21 221 80 71	.07 182 82 70	.14 101 82 71	.09 50 93 71	.11 18 95 71	.11 216 85 71	.25 124 92 71	.18 154 92 71	.22 227 87 72	.17 170 85 72	.15 88 90 71	.14 119 90 70	.38 454 87 70	.38 426 87 70	5.678 18.2		
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP WIND MAX MIN	.04 139 84 71	.36 93 87 69	.35 102 89 70	.09 137 89 72	.10 121 88 72	.14 228 85 70	.38 133 87 72	.17 53 87 70	.20 49 90 71	.27 95 90 72	.24 109 85 72	.17 85 87 70	.28 114 87 72	.08 117 86 71	.17 119 87 70	.11 63 85 71	.22 179 83 70	.16 124 90 71	.23 70 86 71	.17 72 89 71	.11 130 88 71	.38 49 91 71	.13 33 89 71	.27 53 92 72	.08 79 92 71	.34 66 92 71	.32 56 93 71	.10 27 92 70	.32 29 93 71	.15 46 94 72	6.338 2911	
• • • CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP WIND MAX MIN	.41 67 80 70	.17 47 85 72	.28 90 86 72	.11 70 83 71	.16 89 88 72	.20 77 88 73	.06 115 89 73	.07 53 87 73	.07 35 86 74	.15 48 88 73	.22 40 84 74	.11 30 85 72	.45 87 88 75	.13 43 85 71	.15 55 90 70	.36 97 90 73	.35 109 85 73	.23 81 93 73	.09 23 89 75	.23 49 91 72	.21 71 90 72	.17 54 91 73	.21 35 94 74	.24 42 94 74	.15 44 94 74	.22 44 95 74	.23 49 96 73	.19 26 94 75	.19 39 94 74	.24 31 99 74	6.258 1803	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
JULY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWAI 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA		21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			NOREEN J BAUTISTA
KOLO 1033	4735	03	WAIIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A 5864	03	WAIIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA		22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA		22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943	9253	03	WAIIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWAI 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAILAHOE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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HAWAII AND PACIFIC
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HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0944	01	MAKAWAO		20 50	156 19	1850		VAR			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAAU INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5465	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANIEHULU 254.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUDOHKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310				C	KAONOLU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUKU 386	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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STATION INDEX

HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			K L BOND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		J	NAIL WEATHER SERVICE
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1120					MAUNA KEA SUGAR CO
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAHALA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIAE RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT 68-13	3910	04	N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30					FAA
KONA VILLAGE 93.8	A 4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615	3P				STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKALAHUA 103	A 5761	02	HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUILO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	A 7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			PUUHONUA-O-HONAUNAU 27.4
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

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STATION INDEX

HAWAII AND PACIFIC
JULY 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139				C	MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47				C	DEPT NAT RESOURCES
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210					FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE
NEW STATIONS												
WESTERN PACIFIC ISL, NORTH OF 12 N												
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47				C	DEPT NAT RESOURCES

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:	Soil Type	Soil Cover	Degree of Slope
Kilauea	: Clay	Semi-grassy	0%
Kilauea Branch Station	: Loam	Pasture Grass	20%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Maunaloa	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

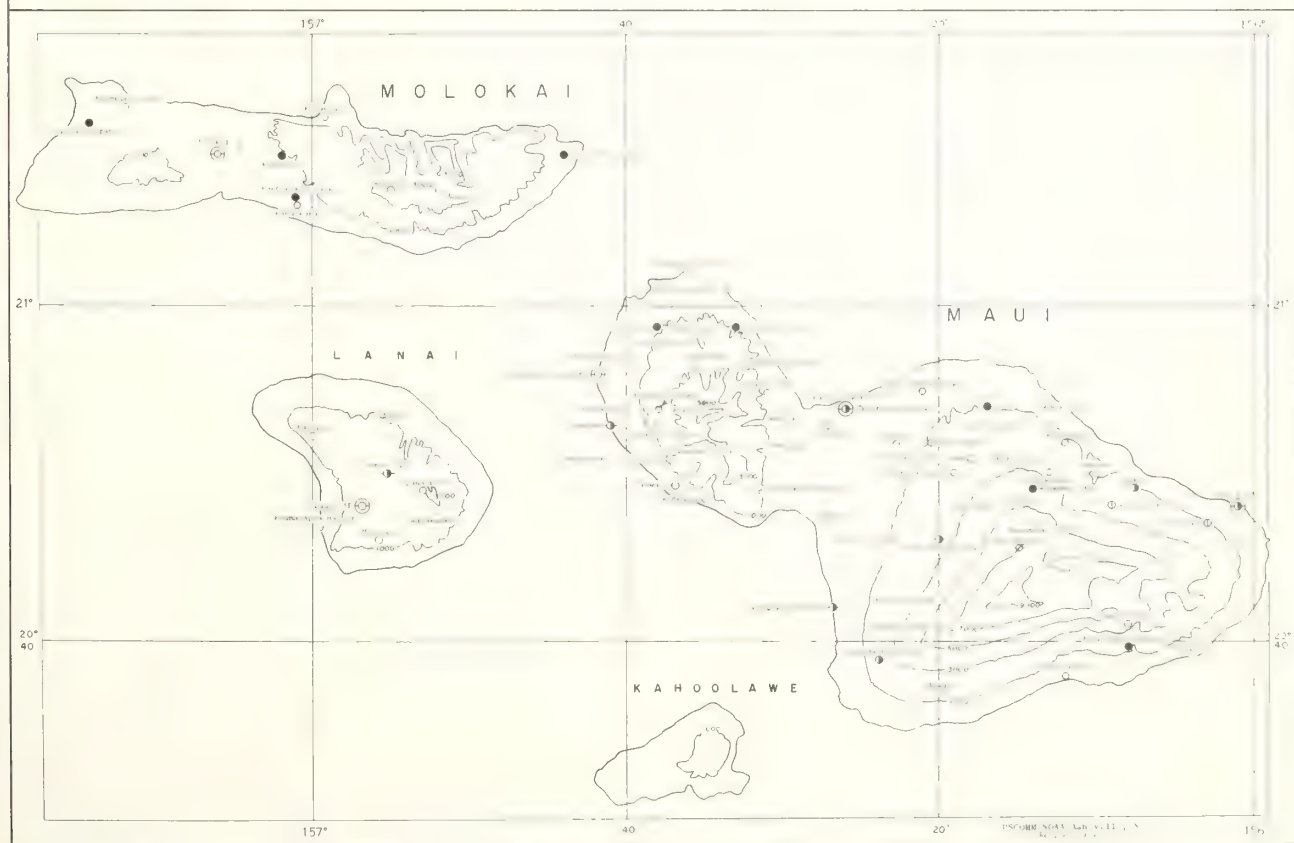
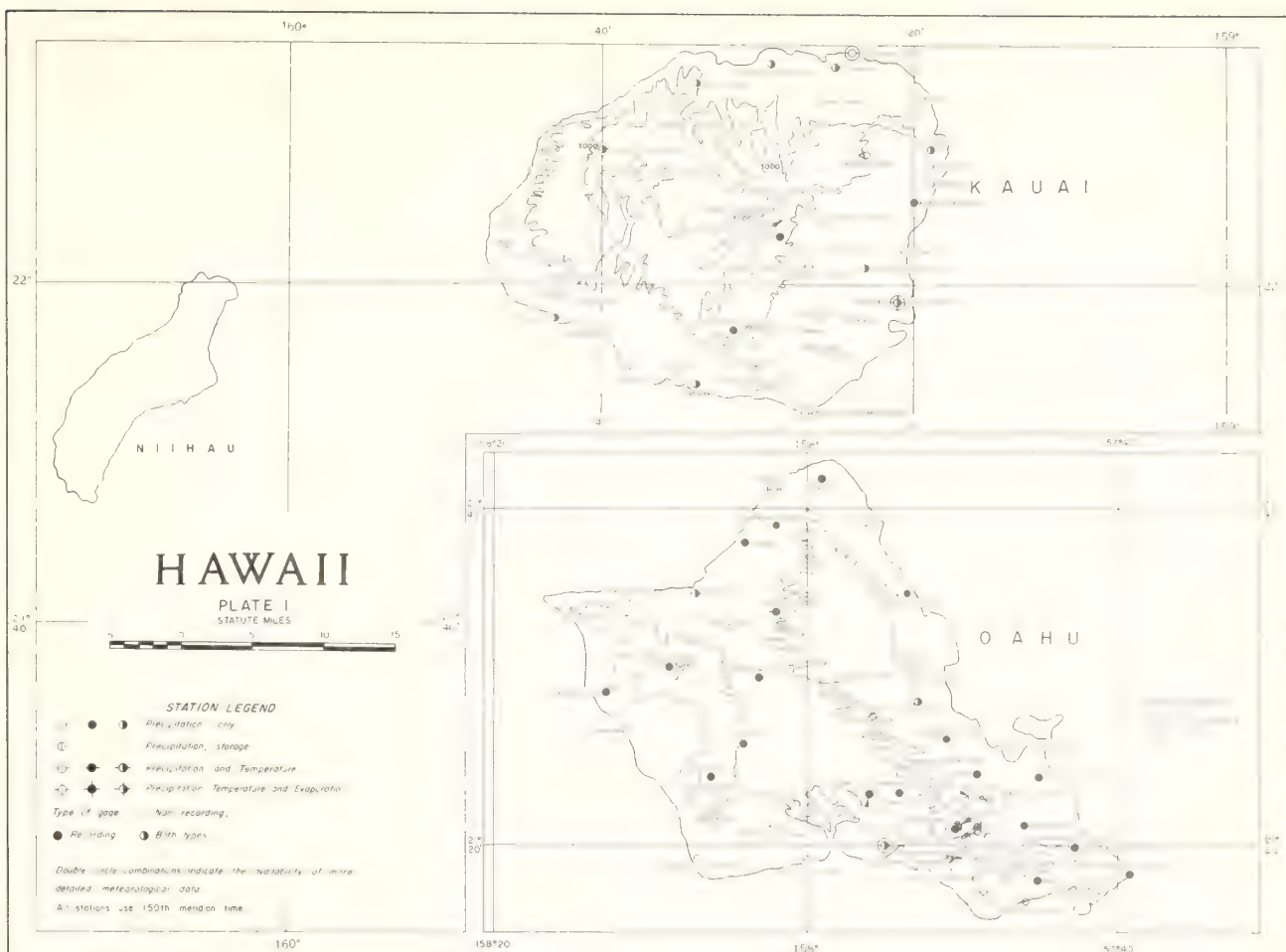
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

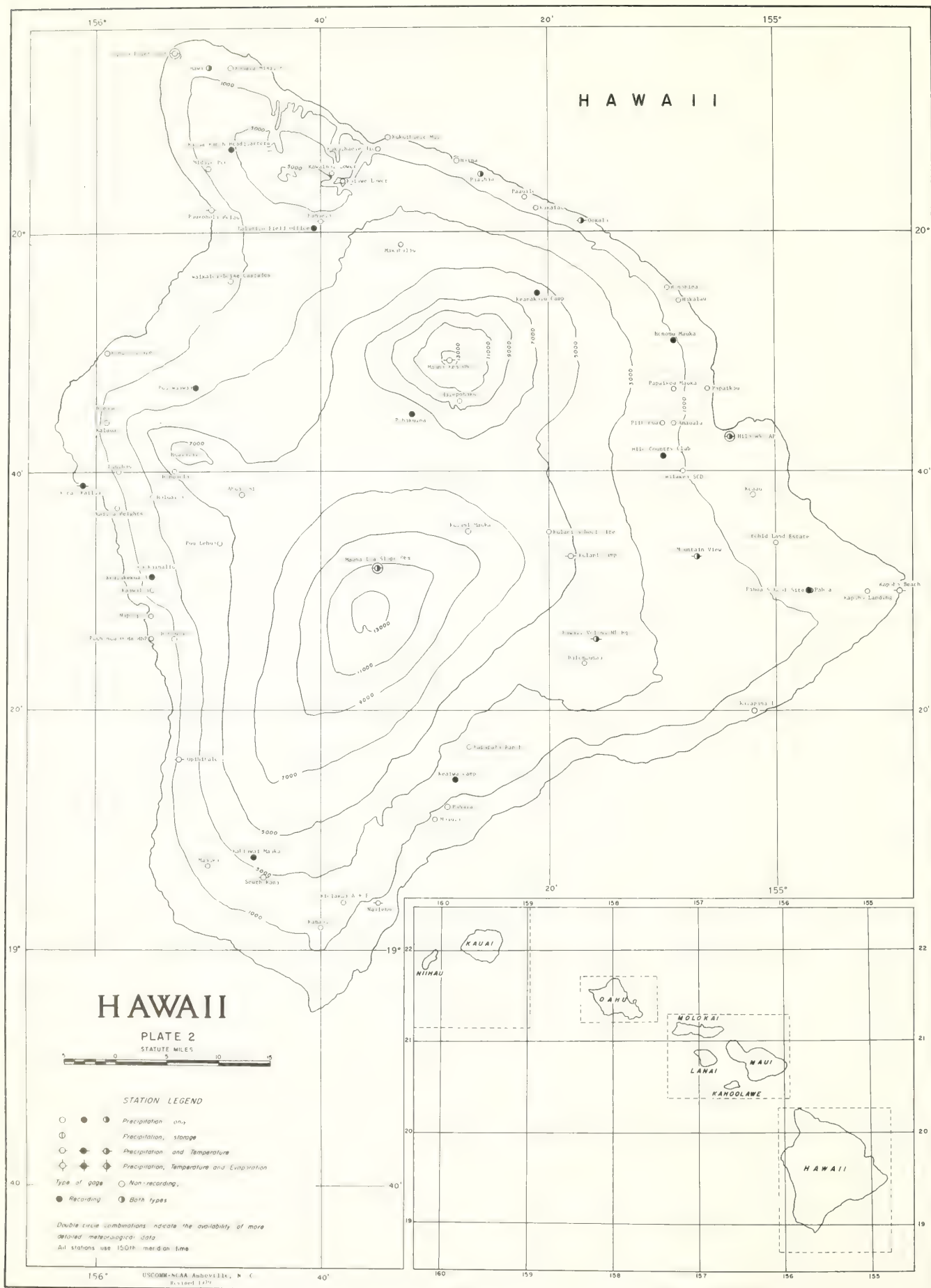
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

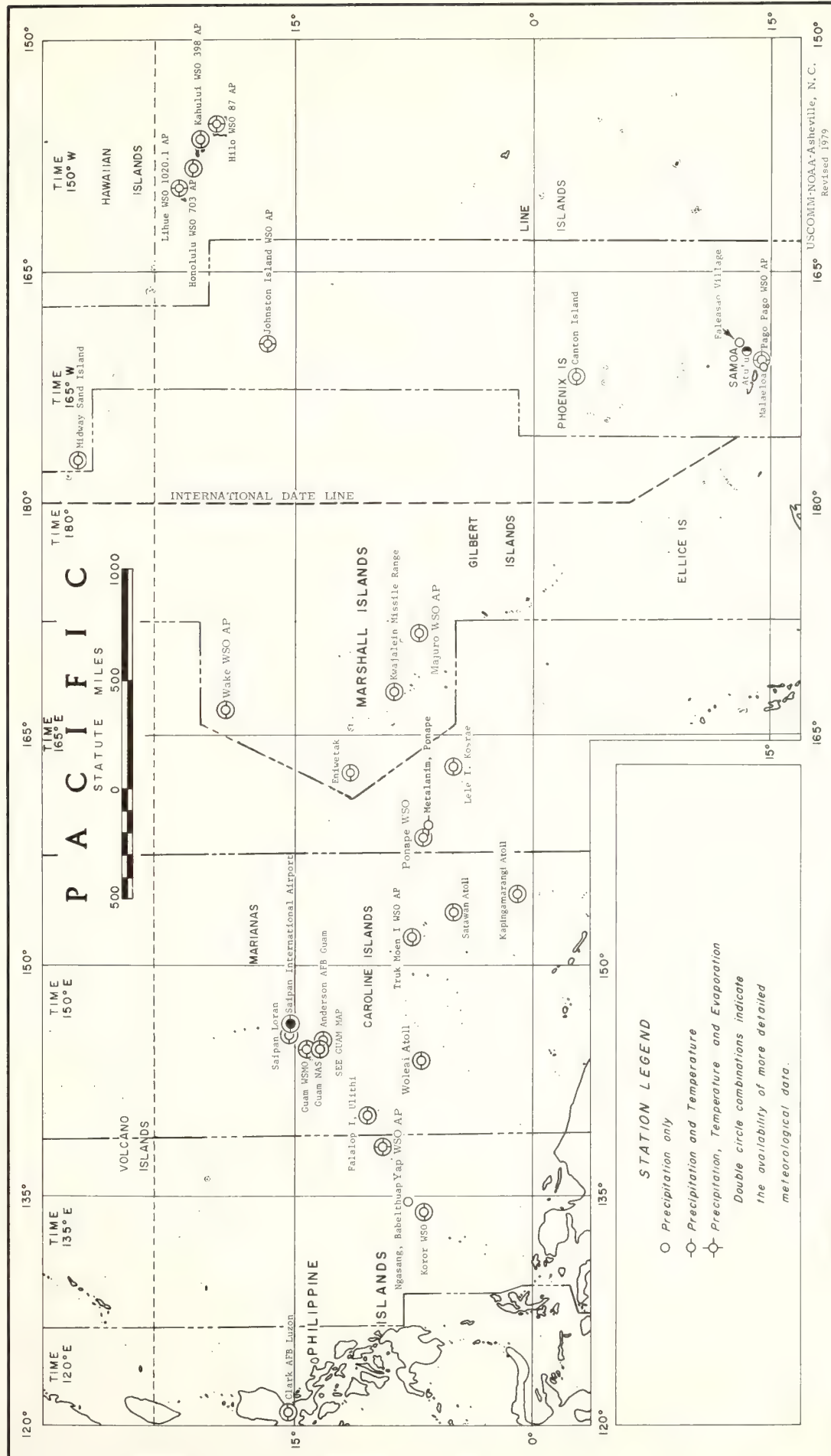
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

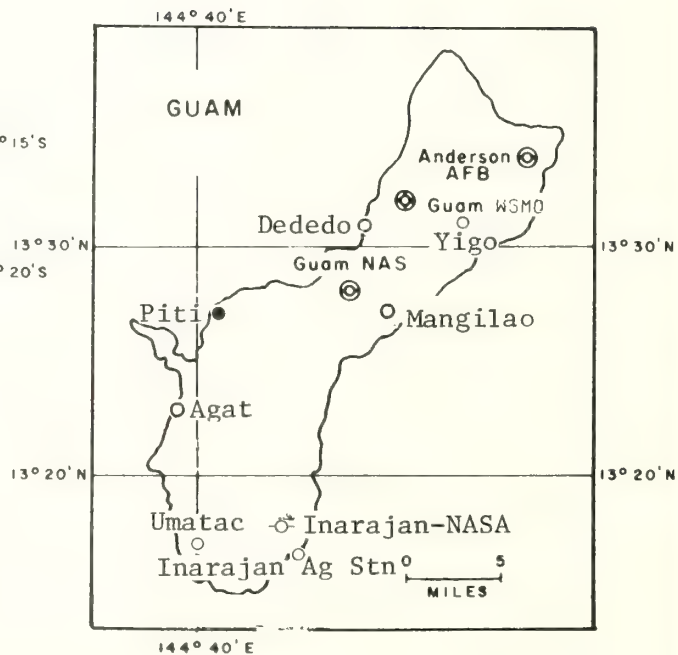
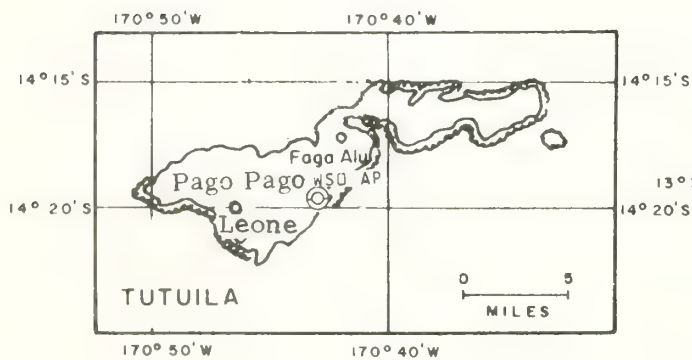
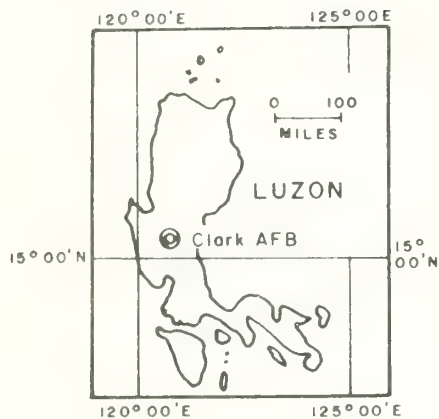
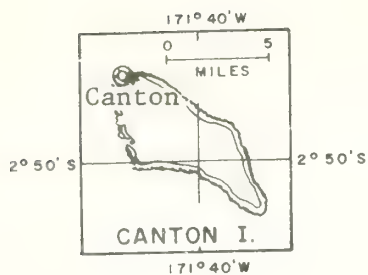
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

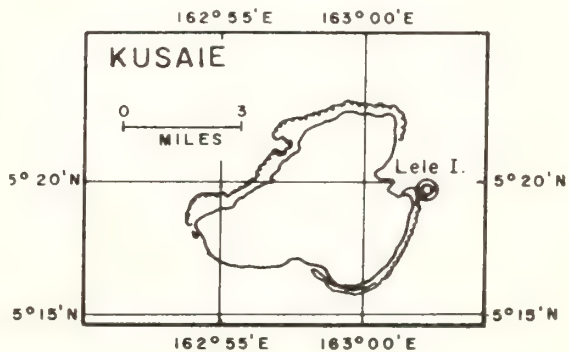
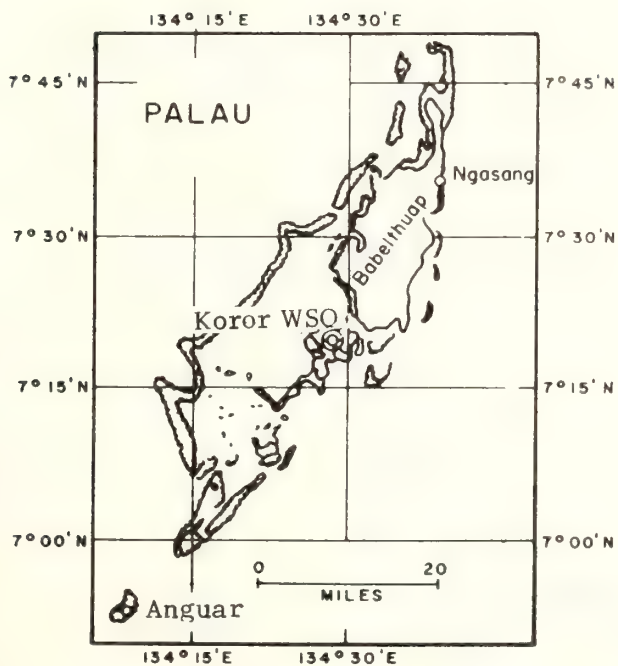
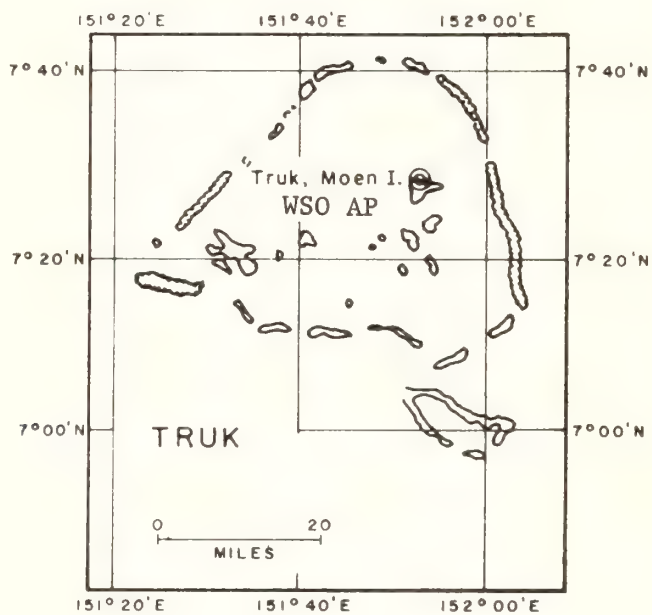
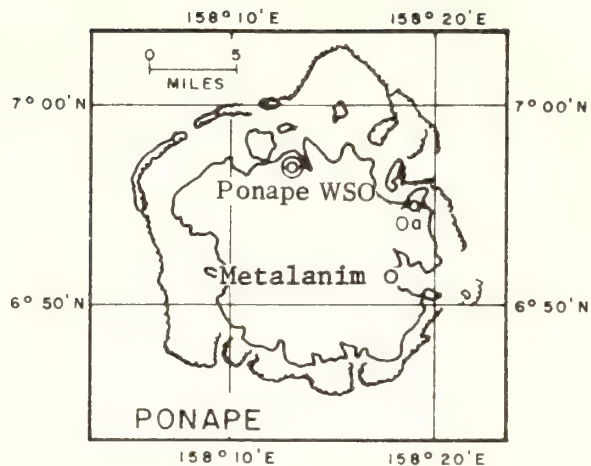
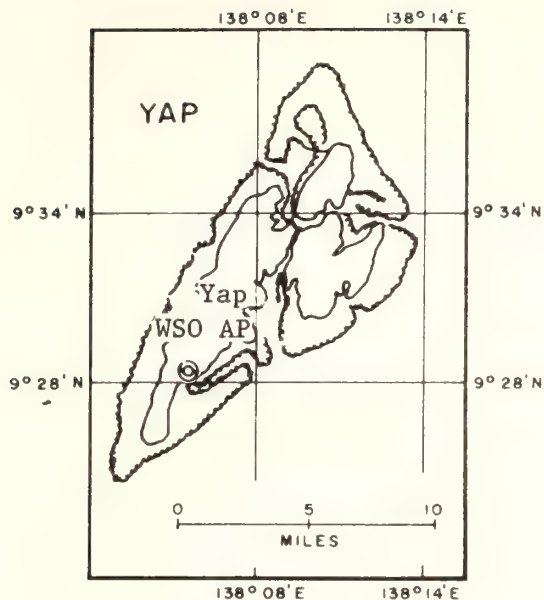
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications



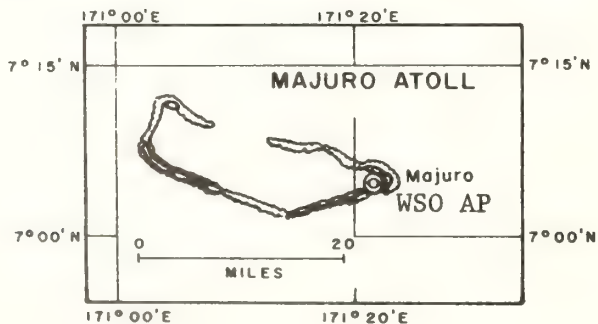
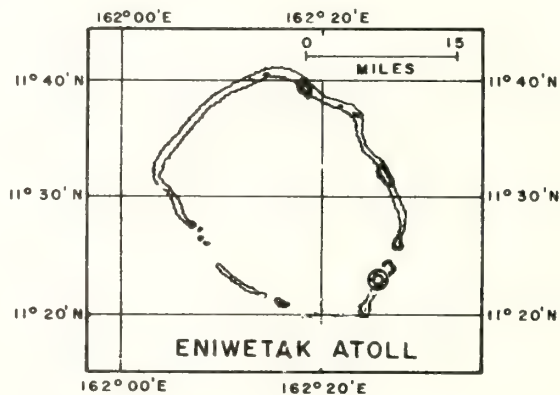
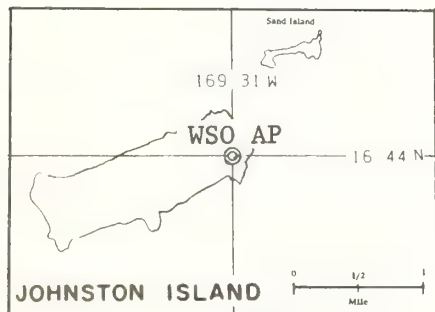
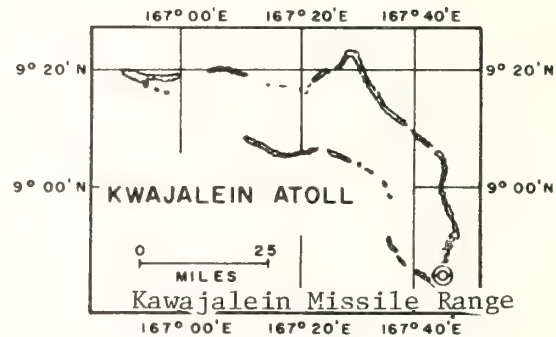
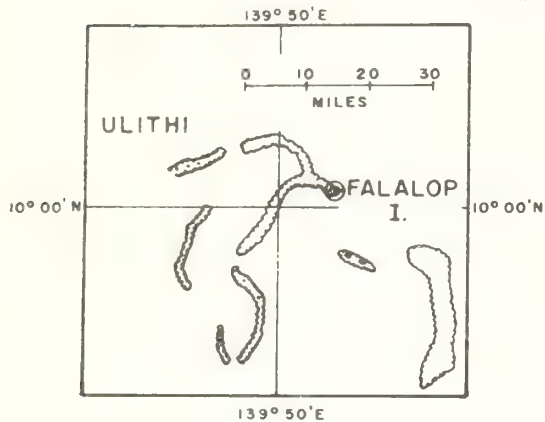
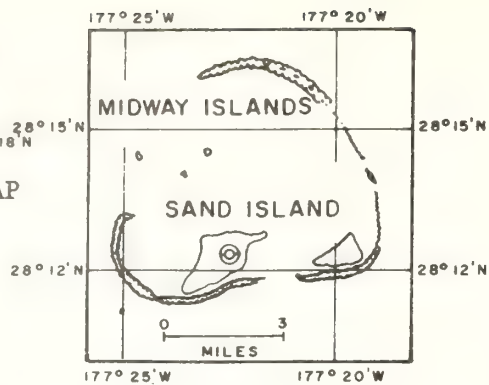
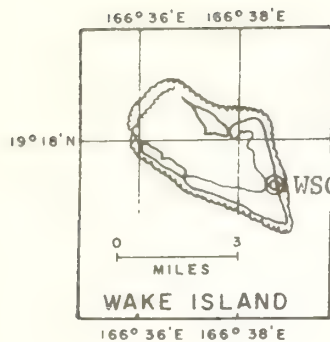








— Reef



U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE
COM 210



THIRD CLASS
BULK RATE

Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KE-AHOLE PT 68.13	HAWAII	95	DATE	30+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	33	DATE	19
GREATEST TOTAL PRECIPITATION:	HONOMANU GULCH 341	MAUI	14.10		
LEAST TOTAL PRECIPITATION:	3 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KAAWALOA 29	HAWAII	3.00	DATE	26

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL		
							GREENWICH CIVIL												
							12	18	00	06									
GUAM WSMO	-	-	-	24	NW	03	-	81	79	95	1	9	9	5	1	1	26	33	9.0
HILO WSO 87 AP	25	0.9	5.4	20++	12	22	90	81	72	86	1	11	14	3	1	0	30	54	7.0
HONOLULU WSO 703 AP	7	11.5	12.2	23++	7	31+	76	70	52	70	10	5	1	0	0	0	16	75	5.9
JOHNSTON WSO AP	9	12.1	12.5	28++	9	20+	86	84	74	81	5	13	3	0	0	0	21	89	4.0
KAHULUI WSO 398 AP	5	12.4	13.3	29	NE	31+		66	54	66	7	6	1	0	0	0	14	73	5.7
KOROR WSO	27	4.8	6.9	19	NW	13	89	-	81	79	2	12	5	6	5	1	31	28	9.3
KWAJALEIN MISSILE RGN	8	7.0	8.8	22++	6	26	83	83	74	76	6	3	10	3	4	1	27		7.9
LIHUE WSO 1020.1 AP	6	11.6	12.1	23++	4	26	80	77	64	75	5	9	5	0	0	0	19	67	6.0
MAJURO WSO AP	8	5.1	7.0	26	E	02	81	82	75	78	3	7	11	2	3	2	28	77	9.0
PAGO PAGO WSO AP	11	12.1	14.6	28++	14	20	84	83	78	81	3	8	5	6	2	2	26	30	7.6
PONAPE WSO				12	N	18+	94	-	77	81	1	5	12	5	2	2	27	42	8.8
TRUK, MOEN I, WSO AP	24	1.1	7.0	33	NW	09	88	-	80	77	3	9	6	5	5	0	28	57	9.6
WAKE ISLAND WSO AP	11	7.0	9.4	21++	13	17+	76	78	65	66	1	7	9	0	1	0	18	66	6.2
YAP WSO AP	25	2.9	6.3	21	N	16	92	-	80	79	5	6	12	2	2	1	28	40	9.5

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

HAWAII AND PACIFIC
AUGUST 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
AUGUST 1980

STATION	TEMPERATURE													PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS					
																				TOTAL	MAX DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE			
HAWAII																												
KULANI CAMP 79	67.2	49.1	58.2				40	22+		0	0	0	0	0	5.22				.0	0				6	0	0		
PAHALA 21															1.83		.49	6	.0	0								
PUUKOHOLA HEIAU 98.1	78.9	58.4	68.7		92	9	55	27+		119	1	0	0	0	1.07		36	6	.0	0			4	0	0			
SOUTH KONA 2 31															11.66		2.14	31	.0	0			18	7				
WATAKEA SCD 88.2																			.0									
ISLAND			71.0												5.88													

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
AUGUST 1980

STATION	TEMPERATURE													PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS				
									MAX.	MIN.	TOTAL	MAX. DEPTH ON GROUND				DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE				
																				32° OR ABOVE	32° OR BELOW	32° OR BELOW	32° OR BELOW
PACIFIC																							
EAST OF 180TH MERIDIAN																							
AASUFOU												27.13		4.35	13	.0	0	21	15	10			
AFONO											15.52		4.47	13	.0	0	15	10	4				
FA EATAO VILLAGE											19.16		4.95	21	.0	0	19	11	6				
JOHN TON I WSO AP	R	86.9	78.3	82.6	1.4	88 30+	74 23+	552	0	0	0	0	1.10	- 1.48	.20	2	.0	0	3	0	0		
MIDWAY SAND ISLAND																							
PAGO PAGO WSO AP	R	83.3	75.5	79.4	1.2	86 16	71 16	453	0	0	0	0	13.97	6.57	3.07	16	.0	0	15	10	4		
WESTERN PACIFIC IS. NORTH OF 12° N																							
AGAT												6.74		.92	23	.0	0	18	6	0			
ANDERSEN AFB GUAM																							
CLARK AFB LUZON												11.84		2.00	22	.0	0	15	10	5			
DEUECO																							
GUAM NAS																							
SIAM WSO	R	86.9	73.4	80.2	1.1	90 28	68 7	476	1	0	0	0	9.42	- 2.74	2.14	23	.0	0	16	7	2		
INARAJAN AG STN												20.00		2.40	1	.0	0	15	4	2			
INARAJAN - NASA		87.8	73.6	80.7		90 9	71 7	497	1	0	0	0	7.64		2.00	23	.0	0	21	9	2		
MANGILAO												11.04		1.73	12	.0	0						
SAIPAN LORAN																							
UMATAI												8.53											
WAKE ISLAND WSO AP	R	89.3	77.6	83.5	9	92 3	73 1	580	19	0	0	0	3.92	- 2.43	1.55	12	.0	0	10	1	1		
YIGI												16.34		2.30	19	.0	0	21	15	6			
CAROLINE AND MARSHALL ISLANDS																							
FALALOP I ULITHI ATOLL																							
KAPINGAMARANGI ATOLL																							
KOROR WSO	R	87.0	74.8	80.9	.3	90 1	72 22	500	1	0	0	0	15.26	-.14	2.37	13	.0	0	17	12	6		
KWAJALEIN MISSILE RGN	R	88.3	77.4	82.9	.4	89 31+	73 1	557	0	0	0	0	13.02	2.82	3.21	1	.0	0	18	8	5		
LELE I KUSRAE																							
MAJURO WSO AP	R	87.0	75.9	81.5	0	89 5	71 12	518	0	0	0	0	13.89	2.11	2.89	12	.0	0	18	7	5		
METALANIH		88.1	73.7	80.9		90 31+	71 2	499	10	0	0	0	10.17		1.30	19	.0	0	19	8	4		
PONAPE WSO	R	88.9	73.6	81.3	1.2	92 29+	71 2	512	15	0	0	0	15.79	-.91	2.77	27	.0	0	21	9	4		
SATAWAN ATOLL																							
TRUK MOEN I WSO AP	R	88.0	74.2	81.1	.2	91 25	73 28+	505	6	0	0	0	12.78	-.66	1.74	8	.0	0	16	10	5		
WOLEAI ATOLL																							
YAP WSO AP	R	87.4	75.3	81.4	.4	89 24+	72 31	513	0	0	0	0	9.52	5.62	2.02	19	.0	0	17	5	3		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
AUGUST 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
AUGUST 1980

DAY OF MONTH

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
AUGUST 1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PARUULO 221		2 37	10 11		11 03 03												05 01	48		23	49								03 67	52		
PZHALA 21	A	1 83			17 49							21	19											05						06		
PAHOA 65		9 80	27		90 42 27				22			10 10		17 09	07				23	32 34 50							53 10 09		12 82		3 14	
PAPAIOU 144.1		7 17			1 31 32 81				02			15 02		02 09					86	11 01 50							78		07	17 70 1 11		12
PAPAIOU MAUKA 140.1	A	5 91			2 65							96							53								1 77					
PIIMONUA 89	A																															
PUUKOHOLA HEIAU 98.1																																
PUU LEHUA 73	A	2 20																														2 20
PUUHONUA O-HONAUNAU																																
S GLENWOOD		12.13	52 32 50		72 24 02			10 03 34			08 10 12			01 04 10			13 22 1.43			02 1 00						94		02 08 03	1 22 1 16 1 42		1 19	
SOUTH KONA 2.3*		1 07			01		36	07 02			05 05								10 18		02		09									02
UPOLU POINT USCG 159 2		2 24	23 12	10	85 03		36	07 02			05 05							07 05 42		11 1 50												1
WAIKAEA SCD 88 2		11 66	27 35 23		50 37 84			16 01			10 05 04			01 03 02			15 20 24			30 02 1 50						02 09		68 03 05	1 18 1 08 2 00		2 14	
WAIKALOA-BOIS CAS 95.8		65			19 03 03			02			33																					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
AUGUST 1980

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
AUGUST 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	73 56	72 57	74 56	73 56	74 49	73 50	73 56	74 55	74 57	73 50	72 54	73 45	75 51	71 55	70 58	72 57	76 56	71 52	73 56	73 54	74 53	73 48	72 56	76 57	75 56	69 59	71 58	75 58	73 57	74 56	75 58	73.1 54.7
KEKAHA 944	MAX MIN																																
KILAUEA POINT 1133	MAX MIN	86 72			86 72	86 72	86 72	88 72	88 73				89 72	89 74	89 71	90 73			88 71	87 70	88 71	86 70	86 72			90 71	88 69	83 68	86 74				
LIHUE WSO AP 1020.1	MAX MIN	83 75	82 74	84 75	84 75	85 74	84 68	84 75	84 69	85 74	84 69	84 68	85 68	85 73	86 76	83 71	85 69	85 77	85 75	85 75	85 75	85 72	85 75	86 76	85 75	79 72	84 75	85 75	85 77	85 76	85 76	84.4 73.5	
WAIHI LOWER 1054	MAX MIN	78 67	80 66	78 68	78 68	76 64	80 64	80 62	82 64	82 62	80 64	78 64	80 62	82 62	80 66	80 68	78 64	80 68	80 66	82 66	80 68	82 68	80 68	82 68	80 64	78 62	78 62	80 67	80 60	82 64	80 68	82 64	79.9 64.9
WAIPIA 947	MAX MIN	88 68	89 68	90 66	90 68	90 70	88 64	89 66	89 68	88 65	89 66	90 69	86 70	87 69	88 64	89 68	89 66	90 68	91 68	89 68	89 70	89 68	88 67	88 68	89 69	90 68	88 68	89 66	88 68	90 69	89 68	89.0 67.5	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	85 70			87 70	86 71	85 72	86 70	86 71	88 70		86 73	88 72	89 72	87 71	87 72			86 73	85 72	86 72	85 71	85 72			86 72	86 70	88 74	86 72	89 74			86.5 71.7
B Y U LAIE 903.1	MAX MIN	82 74	79 71	82 72	83 72	84 72	83 72	84 72	83 69	81 70	83 69	84 70	84 70	83 70	82 71	83 71	83 71	84 71	83 71	81 72	81 71	81 72	84 72	84 75	84 79	84 75	83 73	80 74	85 71	83 79	84 74	82 75	82.9 72.2
HONOLULU OBSERV 702.2	MAX MIN	87 69	87 68	89 68	90 69	90 70	88 68	88 68	90 67	88 67	92 67	90 66	90 68	90 68	90 70	90 69	90 72	90 69	91 73	90 69	89 69	91 68	90 71	91 71	91 71	89 71	87 69	91 73	91 72	90 72	90 68	89.8 69.4	
HONOLULU WSO AP 703	MAX MIN	87 70	88 71	89 73	88 71	88 71	89 71	89 73	89 71	91 73	90 70	90 70	89 74	90 73	89 74	88 72	90 75	90 76	89 75	88 75	88 74	88 73	90 72	90 76	89 74	87 76	83 75	89 74	88 75	89 76	88 74	89 74	80.7 73.3
KANEONE MAUKA 781	MAX MIN	79 71	79 76	83 78	83 74	81 76	87 75	87 74	82 72	87 77	85 77	85 78	84 77	84 77	84 74	83 77	85 77	84 77	81 77	81 77	84 75	81 77	84 75	85 77	84 75	84 73	83 75	84 73	78 76	84 78	81 76	85 77	83.2 75.5
KII-KAHUKU 911	MAX MIN	82 72	81 72	82 71	84 74	83 74	83 73	84 72	84 73	82 70	84 70	85 71	84 74	84 72	83 72	84 72	84 71	85 70	83 72	82 72	84 72	84 75	85 73	84 74	83 73	80 72	84 75	84 72	84 75	84 70	84 71	84 72	83.5 72.3
MANOA LYON ARBORETUM	MAX MIN	74 66	74 67	78 68	78 69	82 68	77 69	85 69	84 69	82 69	85 66	83 66	83 68	81 69	83 68	79 68	82 70	84 69	82 69	79 69	78 70	83 70	84 69	85 70	83 69	80 70	82 70	75 69	84 70	83 68	82 68	82 68	81.2 68.6
OPAUELA 870	MAX MIN	82 67	81 68	81 70	79 65	80 65	80 65	79 65	79 65	83 65	84 67	80 65	79 67	80 65	80 65	84 67	86 71	86 69	84 67	84 67	84 68	84 68	84 68	82 68	84 69	85 70	85 68	85 67	85 70	85 68	88 67	82 68	82.6 67.3
PUU MANAWAHUA 725.6	MAX MIN	77 65	80 66	82 66	79 64	80 66	80 65	81 66	80 65	83 64	82 65	84 66	82 66	83 66	83 67	81 66	83 68	82 66	83 68	82 67	80 67	80 65	81 66	83 68	82 66	82 67	80 67	77 67	82 67	82 66	82 67	83 67	81.4 66.2
WAIKALUA 847	MAX MIN	84 72			87 66	87 68	87 66	88 66	87 63	82 64	88 64	88 64	88 65	89 65	87 68	89 66	88 68	88 67	87 69	86 65	86 64	88 63	87 68	86 70	88 69	88 68	88 68	90 68	90 68	88 64	86 66	87.6 66.8	
WAIKIKI 717.2	MAX MIN	86 69	85 70	89 74	89 75	89 70	88 70	89 71	89 71	89 71	90 70	90 71	89 70	89 71	89 70	89 70	90 73	90 74	89 73	89 73	89 73	89 73	89 73	89 73	89 73	89 73	89 73	89 73	89 73	89 73	89 73	88.7 71.6	
WAIMANALO EXP FM 795.1	MAX MIN	82 69	80 70	83 74	83 75	84 70	83 73	83 75	81 71	83 71	84 70	84 75	84 74	83 72	83 71	84 72	84 74	84 75	85 72	85 74	82 71	84 71	84 75	84 72	84 73	83 74	82 75	84 76	84 76	84 74	84 75	83.5 73.0	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 68	80 64	84 70	86 71	84 70	84 70	86 70	86 69	86 69	85 67	88 66	88 70	86 70	85 70	81 70	85 69	86 73	87 71	87 71	87 70	81 71	83 72	80 69	84 71	89 70	82 73	86 72	87 69	87 70	84 69	86 70	84.9 69.8
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	85 67	79 62	83 63	84 66	81 67	80 64	79 64	83 66	81 66	83 64	79 63	83 63	83 66	82 65	80 64	79 65	83 61	83 67	82 65	83 65	82 65	83 65	83 65	83 65	81 67	82 64	82 67	83 66	81 67	84 67	82.0 64.8	
LANAI CITY 672	MAX MIN	77 65	73 64	74 63	78 65	79 65	77 62	77 63	79 65	78 65	78 63	79 63	78 61	78 62	76 63	76 65	75 64	76 64	77 65	77 65	78 63	78 61	78 63	76 64	77 65	75 64	78 66	78 62	77 62	77 65	76 66	77 66	77.0 63.8
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	69 49	66 45	66 42	64 45	61 48	64 43	62 42	66 46	63 42	66 43	64 48	65 44	64 42	65 39	65 39	65 44	63 50	63 46	64 46	62 38	60 39	64 40	63 47	64 42	65 42	66 44	63 43	61 44	66 46	70 44	62 44	64.2 43.9
HANA AIRPORT 355	MAX MIN	83 74	82 78	84 79	84 73	83 77	84 74	85 69	84 71	86 69	85 71	86 69	83 68	85 76	85 68	83 70	84 80	85 79	85 78	84 70	84 67	85 68	85 71	82 68	85 72	85 71	84 76	85 75	84 77	85 76	83 75	84 75	84.1 74.6
KAANAPALI AP 453.1	MAX MIN	88 70	88 70	89 68	89 70	86 66	91 67	87 65	91 70	89 71	93 68	90 67	87 69	90 69	88 67	88 69	90 69	91 69	88 69	88 71	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88 65	88.7 69.0
KAHULUI WSO 398 AP	MAX MIN	87 73	87 73	89 76	87 65	89 69	90 67	89 74	91 72	87 67	91 69	91 75	88 75	88 72	89 73	89 76	90 74	90 74	88 74	87 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	89 74	88.7 72.3	
KAILUA 446	MAX MIN	77 68			78 67	77 67	78 69	78 72	79 70		79 64	80 64	80 68	80 68	80 67	77 67	79 69	78 68	78 69	75 66	79 66	75 66	79 64	78 67	75 67	76 67	78 69	78 68	77 67	77 66	76 66	78.0 67.5	
KEAWAKAPU BEACH 260.2	MAX MIN																																
KULA BRANCH STN 324.5	MAX MIN	76 56	74 56	74 57	73 56	74 57	78 57	75 56	77 60	76 58	76 60	77 55	75 57	76 55	71 58	77 58	78 60	73 62	76 56	78 57	77 59	76 55	77 56	75 61	77 61	79 57	76 58	76 57	75 57	75 59	76 60	76 61	75.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
AUGUST 1980

		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KAHALA PT 167	MAX	75	74	75	74	74	75	72	74	73	75	74	73	74	73	72	75	73	75	75	74	75	75	75	74	77	75	75	75	75	74	74	74.3	
	MIN	55	55	55	56	58	56	55	56	58	59	55	55	54	55	56	58	58	58	56	57	56	54	55	57	56	56	57	56	56	58	56	56.2	
LAHAINA 161	MAX	91	90	89	89	90	90	92	89	91	91	90	92	90	90	87	88	91	91	92	88	90	86	86	90	89	90	90	93	87	87	91	89.7	
	MIN	72	69	69	73	70	68	72	71	70	70	70	69	69	71	70	68	69	70	70	74	69	69	67	67	70	76	72	71	70	69	66	70.0	
[] AND OF HAWAII																																		
HAWAII PT. N. NP HQ 54	MAX	70	72	70	71	68	75	74	74	77	73	75	74	71	75	74	75	74	71	72	73	73	74	77	74	75	73	73	75	71	74	71	73.2	
	MIN	56	55	54	54	54	57	52	55	53	55	53	51	57	53	53	54	56	56	54	55	58	48	52	55	56	54	57	51	55	57	59	54.5	
HAWAII PT. N. NP HQ 57	MAX	82	82	81	83	84	83	84	85	83	85	83	84	85	84	82	85	84	83	83	83	83	85	84	81	82	84	83	76	81	83	80	82.9	
	MIN	70	69	67	68	66	67	64	66	67	66	65	64	65	69	65	67	68	69	67	68	66	64	65	68	68	66	66	69	68	70	70	67.0	
KAHALA PT 2	MAX	78	77	80	79	79	79	81	80	82	82	79	80	79	78	78	80	83	80	82	82	78	78	79	80	81	77	79	81	83	80	80	79.8	
	MIN	64	62	62	64	64	64	64	64	63	66	64	63	66	65	64	60	64	66	65	66	64	64	66	65	62	64	63	63	63	65	64	68	
KAPOH BEACH 93 11	MAX	86	86	86	83	86	87	87	82	89	89	90	90	87	91	88	87	89	87	86	84	85	87	87	89	85	84	88	88	83	82	86	86.6	
	MIN	70	70	68	69	68	69	69	69	71	68	69	69	70	68	70	70	69	65	71	68	68	68	68	71	70	69	70	70	69	70	70	69.1	
KE-AHOLE PT 68.13	MAX				93	94	89	90	94		89	89	90	90	83	95	90	87	90	90	88	89	86	90	89	90	89	89	90	89	95		89.9	
	MIN	73	72	75	71	73	63	72	75		74	73	74	72	71	71	71	73	74	74	72	72	74	72	72	71	75	72	76	73	75		72.6	
KE ANI CAMP 79	MAX				63			69	67	68	68	68	68	68	67	65	68	68	68	65	68	68	65	70									67.2	
	MIN	49			52	54		56	49	47	55	48	48	49	48	50	49	52	50	51	51	40	40	45									49.1	
LALAMILO FLD OFF 191.1	MAX	78	79	80	80	79	79	78	78	79	81	83	77	79	80	80	78	81	80	77	76	79	80	79	78	78	79	79	78	76	77	76	78.7	
	MIN	62	60	59	60	61	62	61	59	59	55	54	56	57	55	58	61	63	63	61	61	59	55	57	62	63	61	62	63	66	62	63	60.0	
MAUNA KEA OBS 111.2	MAX																																	
	MIN																																	
MAUNA LOA SLOPE OBS	MAX	62	58	58	56	54	54	59	54	56	56	58	59	66	59	58	54	53	53	62	60	56	58	55	57	52	57	55	60	58	55	51	56.9	
	MIN	44	42	39	38	35	37	36	39	37	39	39	42	44	42	40	38	37	34	33	41	38	37	41	38	36	37	40	42	39	40	41	38.9	
MOUNTAIN VIEW 91	MAX	79	75	75	76	75	81	80	80	82	76	80	79	79	82	82	80	80	80	80	80	78	80	82	82	79	79	80	81	74	77	75	79.0	
	MIN	63	63	64	63	62	61	60	59	63	66	61	60	62	62	62	61	63	64	65	62	65	58	59	62	62	62	61	61	64	65	66	62.3	
NAALEHU 14	MAX	82	81	82	81	81	82	80	82	82	81	83	82	83	83	83	87	83	86	84	84	82	80	84	83	84	82	83	83	78	84	83	82.5	
	MIN	62	67	70	63	67	67	63	65	67	70	65	65	65	65	62	68	71	62	65	65	67	66	69	71	66	66	67	68	68	68	74	66.6	
OOKALA 223	MAX	81	81	81	79	80	80	81	81	78	79	82	82	82	83	82	83	82	83	83	80	81	81	82	83	80	80	80	83	79	82	80	81.1	
	MIN	68	68	67	69	68	68	68	68	68	65	69	70	70	70	68	69	70	72	69	70	72	69	71	67	67	70	75	71	70	65	69	69.0	
OPINIMAE 24 1	MAX	84	82	80	79	79	82	82	84	84	81	83	81	82	82	82	83	82	84	84	82	82	81	82	84	77	80	83	84	83	82	81	82.0	
	MIN	58	59	59	60	63	59	58	59	59	59	60	60	59	59	62	62	61	61	61	60	63	59	58	66	59	57	57	62	60	63	63	60.2	
POKUNOHOLA HILL 96 1	MAX																																	
	MIN																																	
SOUTH KONA 2.31	MAX	75	75	73	73	73	75	72	75	92	82	70	73	87	82	80	77	80	76	83	82	82	80	82	80	82	78	85	82	82	80	78	78.9	
	MIN	56	57	61	58	59	61	57	56	57	58	60	61	60	61	56	59	57	58	55	58	57	58	56	58	58	56	55	58	62	63	65	58.4	
UPOLU POINT USCG 159.2	MAX	85	85	85	86	85	85	85	85	86	88	87	87	86	85	87	80	87	86	85	84	86	83	87	92	85	87	92	86	87	85	85.9		
	MIN	69	73	71	69	69	71	71	71	70	71	68	66	68	67	70	71	72	71	73	70	71	68	67	71	74	70	69	72	70	65	61	69.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
AUGUST 1980

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	88 79	86 78	87 76	87 78	87 79	87 77	87 80	87 76	87 74	87 75	87 79	87 79	87 79	87 80	87 76	88 80	87 80	87 80	86 79	85 75	87 79	87 79	87 74	87 79	87 79	87 79	88 81	88 80	84 78	88 80	86 79	86.9 78.3	
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	82 77	83 77	84 76	83 76	85 77	84 76	85 74	85 75	83 76	80 74	82 75	82 74	81 76	85 77	84 73	86 71	85 76	83 75	85 77	85 75	84 76	85 77	83 74	80 74	80 76	81 75	81 74	82 77	84 78	84 76	85 78	83.3 75.5	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN																																	
CLARK AFB LUZON	MAX MIN																																	
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	89 72	89 73	86 74	87 74	86 73	87 69	89 68	89 70	87 70	86 76	84 75	87 73	86 72	87 74	87 75	86 77	88 76	87 75	84 73	87 71	87 74	88 74	81 70	85 74	86 73	87 75	88 76	90 76	88 75	87 75	88 72	86.9 73.4	
INARAJAN - NASA	MAX MIN	89 74	89 74	87 78	87 74	87 75	86 73	87 71	88 74	90 73	89 73	88 74	88 73	88 73	88 74	88 74	89 74	87 74	87 74	86 73	87 72	87 75	88 74	88 73	88 73	88 73	88 74	88 73	88 73	88 73	89 74	87.8 73.6		
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	81 73	91 78	92 78	87 77	89 76	86 77	87 79	88 80	87 79	90 79	90 78	89 74	90 79	91 78	91 78	90 78	91 79	91 79	91 78	89 77	90 77	90 79	90 76	90 77	84 77	90 78	88 74	89 77	91 77	91 79	91 80	89.3 77.6	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	90 75	85 75	87 77	88 75	88 74	89 73	83 74	87 73	88 74	88 76	88 77	87 73	85 73	87 75	89 75	88 75	86 75	88 75	88 75	88 75	88 73	88 73	86 72	86 74	88 77	89 78	86 74	86 76	85 76	88 75	88 75	87 74	87.0 74.8
KWAJALEIN MISSILE RGN	MAX MIN	87 73	88 78	89 80	89 77	89 80	89 80	88 77	88 76	88 76	89 77	88 80	89 79	88 78	88 76	88 76	89 75	88 78	89 80	87 79	89 75	89 77	89 77	88 77	89 80	89 81	89 75	87 75	87 75	85 75	89 76	89 80	88.3 77.4	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	86 73	87 73	87 77	88 74	89 78	85 77	86 77	87 78	88 76	88 75	88 78	84 71	86 77	87 76	87 74	86 73	88 78	86 79	87 72	88 77	88 74	88 74	87 76	87 76	87 75	88 78	84 75	87 77	88 77	88 77	87.0 75.9		
METALANIM	MAX MIN	84 72	88 71	88 74	84 76	87 74	90 72	90 73	83 76	87 74	89 73	90 72	87 74	88 76	87 72	87 73	89 74	88 72	89 73	89 74	90 74	84 74	88 72	90 74	88 74	88 76	88 75	88 74	89 76	90 73	90 74	90 74	88.1 73.7	
PONAPE WSO	MAX MIN	83 73	89 71	90 74	85 76	88 74	89 72	90 73	92 75	83 74	89 73	89 72	90 74	90 76	91 74	88 73	86 73	90 73	88 73	91 73	91 74	85 73	89 73	91 73	91 74	91 75	91 74	86 74	90 75	92 74	88 73	89 75	88.9 73.6	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	88 73	86 73	89 73	85 74	87 73	89 74	88 74	89 73	87 75	81 71	86 73	87 74	88 73	90 75	89 75	88 75	88 78	87 75	88 73	89 73	89 75	85 73	88 74	90 74	91 75	90 77	89 75	85 73	89 75	89 75	90 75	88.0 74.2	
HOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	89 76	88 76	88 73	88 76	89 77	88 77	89 74	82 74	88 74	88 79	89 76	87 76	84 76	88 76	89 75	89 76	88 75	88 74	84 73	87 75	88 75	88 74	87 74	88 78	89 78	87 74	88 77	87 75	87 75	84 74	86 72	87.4 75.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
AUGUST 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
STATION 411	IN	4" MAX	84	80	85	85	85	86	89	89	87	90	90	90	90	88	90	90	88	88	87	84	87	89	86	87	85	80	85	84	87	85	86	86.6
		MIN	78	76	76	77	79	78	79	80	78	80	80	80	81	80	81	80	80	80	80	78	77	78	80	79	80	77	76	78	78	78	78	78.6
MANA LION ARI-HETIM	IN	4" MAX	78	75	77	76	78	76	80	79	78	81	81	79	79	79	77	79	80	80	77	76	79	80	81	80	78	79	76	78	79	78	79	78.5
		MIN	74	73	74	74	74	75	74	76	76	76	79	77	77	76	76	76	77	77	75	74	74	75	77	77	76	76	75	75	76	76	76	75.6
STATION 412	IN	4" MAX	95	-	-	87	98	102	-	104	-	-	103	105	99	101	-	-	-	103	99	95	104	-	-	-	96	85	99	101	-	-	-	-
		MIN	79	-	-	66	76	77	-	75	-	-	77	77	77	77	-	-	-	77	76	74	75	-	-	-	79	75	75	75	-	-	-	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
AUGUST 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324.5	4	(IN)																																
		MAX MIN	76 71	- -	- -	75 70	71 68	72 68	72 68	73 71	- -	- -	72 69	74 70	75 70	71 69	- -	- -	- -	75 70	74 71	75 71	73 69	72 69	- -	- -	75 70	74 71	73 71	73 70	72 70	- -	- -	- -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
AUGUST 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
THE HCO AP	EVAP	44	31	34	36	42	39	34	31	28	35	29	30	34	40	32	30	41	38	25	45	27	30	31	35	36	29	16	29	02	31	33	9.97
	WIND	261	220	208	210	179	159	150	155	116	114	75	92	127	186	157	122	167	190	212	173	334	225	162	186	174	195	183	116	216	220	5304	
	MAX	82	82	82	85	85	86	86	87	85	88	88	87	87	86	87	84	87	87	87	87	85	86	86	87	86	84	83	86	86	86	86	85.7
	MIN	63	62	65	65	65	64	65	64	65	69	64	63	64	64	65	65	66	66	66	65	65	65	64	64	66	66	66	67	66	65	65	65.0
ISLAND OF OAHU																																	
HONOLULU OBSERV 700 J	EVAP	16	30	44	40	33	35	33	37	30	30	38	42	32	37	55	30	45	35	60	45	30	39	40	33	37	34	29	45	35	50	45	11.44
	WIND	9	48	25	26	29	15	18	20	18	18	21	23	23	22	22	23	22	27	29	29	19	17	23	25	26	17	12	25	30	35	29	725
	MAX	88	92	95	94	96	96	92	94	87	95	95	94	94	94	95	94	92	95	96	96	90	96	95	92	93	90	84	94	94	95	94	93.3
	MIN	70	68	69	68	68	70	68	68	68	67	67	68	69	69	69	69	72	69	70	69	68	67	69	69	70	70	69	69	69	68	67	68.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
AUGUST 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.33	.42	.21	.26	.31	.44	.22	.46	.33	.35	.30	.33	.45	.45	.33	.37	.45	.27	.30	.23	.39	.35	.34	.42	.35	.40	.32	.41	.26	.38	.33	10.76
	WIND	143	167	170	139	113	131	139	158	152	154	195	186	150	137	137	155	169	159	152	194	187	124	156	167	159	182	165	189	172	154	156	4911
PAGO PAGO WSO AP	EVAP	.32	.32	.12	.17	.21	.20	.31	.18	.24	.280	.06	.10	.18	.18	.18	.18	.21	.07	.53	.25	.28	.18	.27	.34	.34	.36	.40	.28	.22	7.708		
	WIND	271	183	181	198	105	182	174	68	134	280	201	59	139	148	146	77	91	81	172	148	239	208	89	90	188	230	276	248	242	163	145	
	MAX	87	92	90	89	93	93	93	87	81	82	83	83	84	85	92	90	89	92	92	91	90	92	84	90	90	90	86	87	94	98	96	
	MIN	72	70	73	75	73	73	74	70	73	69	71	72	72	70	74	68	67	70	70	73	70	75	69	72	72	69	68	76	72	72	72	
WESTERN PACIFIC ISL, NORTH OF 12 N																																	
GUAM WSMO	EVAP	.37	.15	.12	.00	.06	.20	.21	.29	.14	.11	.08	.08	.35	.28	.04	.26	.12	.06	.02	.05	.19	.15	.18	.07	.03	.17	.24	.15	.26	.22	.21	4.848
	WIND	54	59	70	57	24	22	23	28	36	64	23	21	49	83	47	59	48	26	14	42	90	47	38	66	43	79	78	67	71	51	40	
	MAX	90	90	88	91	88	92	89	90	92	90	86	88	92	92	88	87	91	91	88	89	90	93	87	85	85	89	89	90	90	92	91	1519
	MIN	70	71	71	71	73	71	71	70	73	73	74	74	73	73	73	74	73	73	73	72	71	73	69	70	70	72	73	71	73	71	72	72.0
CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	.30	.18	.16	.31	.23	.23	.21	.10	.15	.25	.22	.14	.06	.31	.18	.33	.22	.26	.22	.20	.19	.13	.22	.19	.18	.20	.16	.12	.09	.07	.15	5.96
	WIND	44	47	104	67	36	37	34	29	34	73	69	49	47	47	39	48	29	54	39	59	29	32	104	84	77	50	30	20	29	31	69	1540
	MAX	96	93	91	92	98	94	94	90	97	91	91	91	96	99	96	89	94	86	95	90	94	94	92	92	89	88	89	90	85	92	92.2	
	MIN	75	75	71	74	75	76	74	73	72	73	73	73	74	73	74	75	75	73	73	72	74	73	72	73	73	72	73	74	73	73	73	73.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
AUGUST 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF MAUI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELELE 937	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALAULA 1106	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
LIHUE INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9	8A	8A		CG	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALEI		22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
ISLAND OF OAHU												
KOLOA 934	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	C	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWEI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT MAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250		6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0464	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00		9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240					U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO		21 31	157 54	800					WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO		21 42	157 59	15		WI		C	KUILIMA HYATT R HOTEL

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ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10				C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	8A			HAWAII STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A		G	JEFF WALLACE
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	280				C	HON BOTANIC GARDENS
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		G	LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAUELA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1330		7A			ROBERT E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A		C	WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			WAIALAE COUNTRY CLUB
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		G	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A			BEN MAYES
WAIANA 836	A 9261	03	EWA		21 28	157 56	800		MO			WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	U H WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330				C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			MOLOKAI RANCH CO LTD
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	KALUA KOI GOLF COURSE
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A
KAUMALAPUA HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620		7A		C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			U S D A
MALAUCA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEAKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 412	A 0999	01	MAKAWAO		20 50	156 19	1850		VAR			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HAILIMAILE 403	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUA 489	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAI 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHUA 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAAULA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHUA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPFLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULU 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 46	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9769	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAUULU 89.2	A 0159	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A			K L BOND
HAW'N OC VW EST 3.9	1385	02	KA'U		19 07	155 47	2900					RUSSEL P SMITH
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1630					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHIINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE R/NCH
KAAHALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT 68.13	3910	04	N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 11	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30					FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 01	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILLO FLD OFF 191.1	5260	01	S KOHALA		20 01	155 41	2615	3P	3P			STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKAHALAU 103	A 5761	02	HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 30	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHUA 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUILO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 31	154 58	600		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	A 7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			U S DEPT OF INTERIOR
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
AUGUST 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKALOA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
AUGUST 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139				C	MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CAPITOL HILL	4075	03	SAIPAN		15 13N	145 45E	672				C	MARINO TORWAL/G SABLAN
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47				C	DEPT NAT RESOURCES
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:

	<u>Soil Type</u>	<u>Soil Cover</u>	<u>Degree of Slope</u>
K11-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be published annually as a Supplemental bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- * Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- 1/2 Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

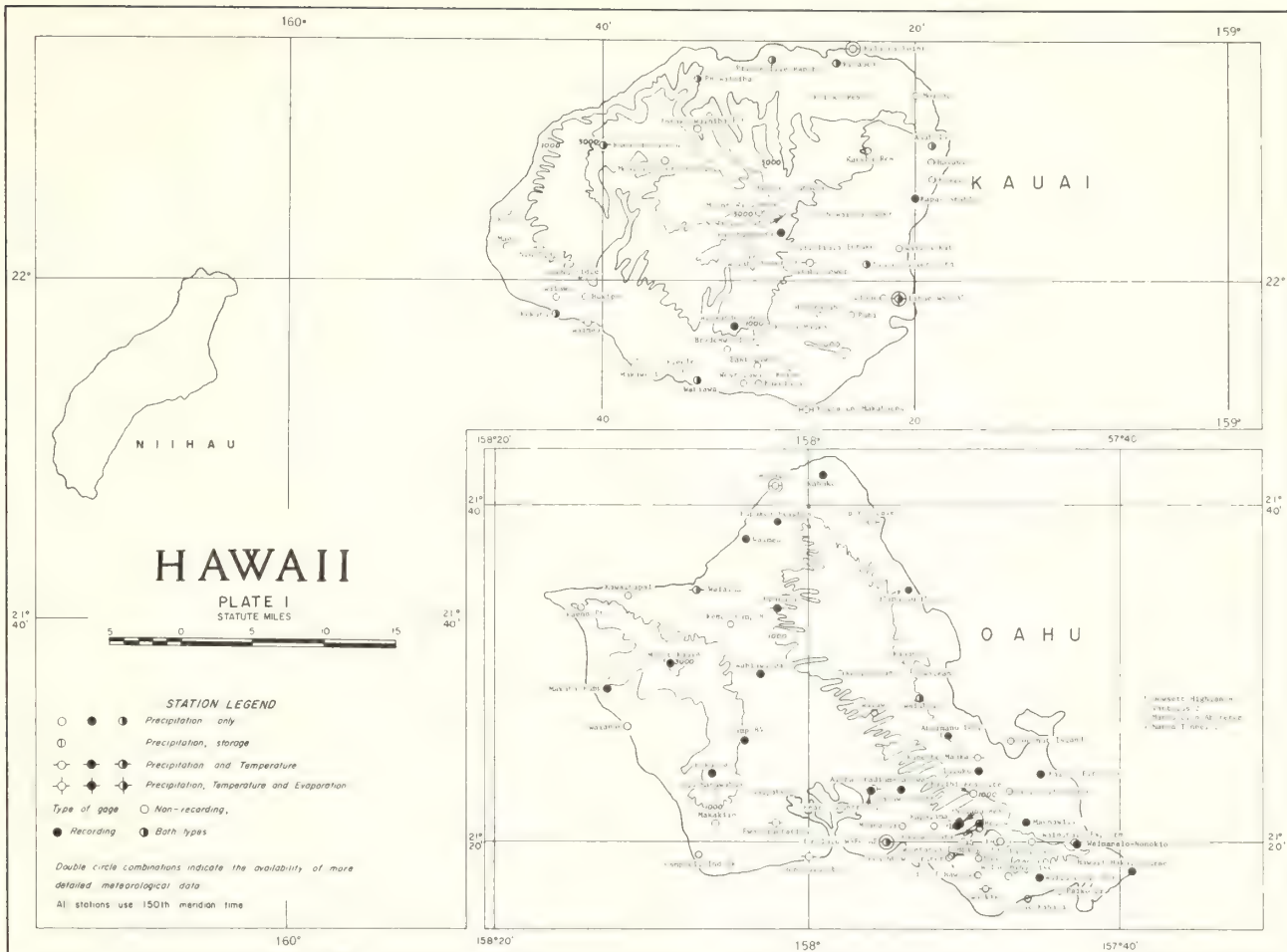
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

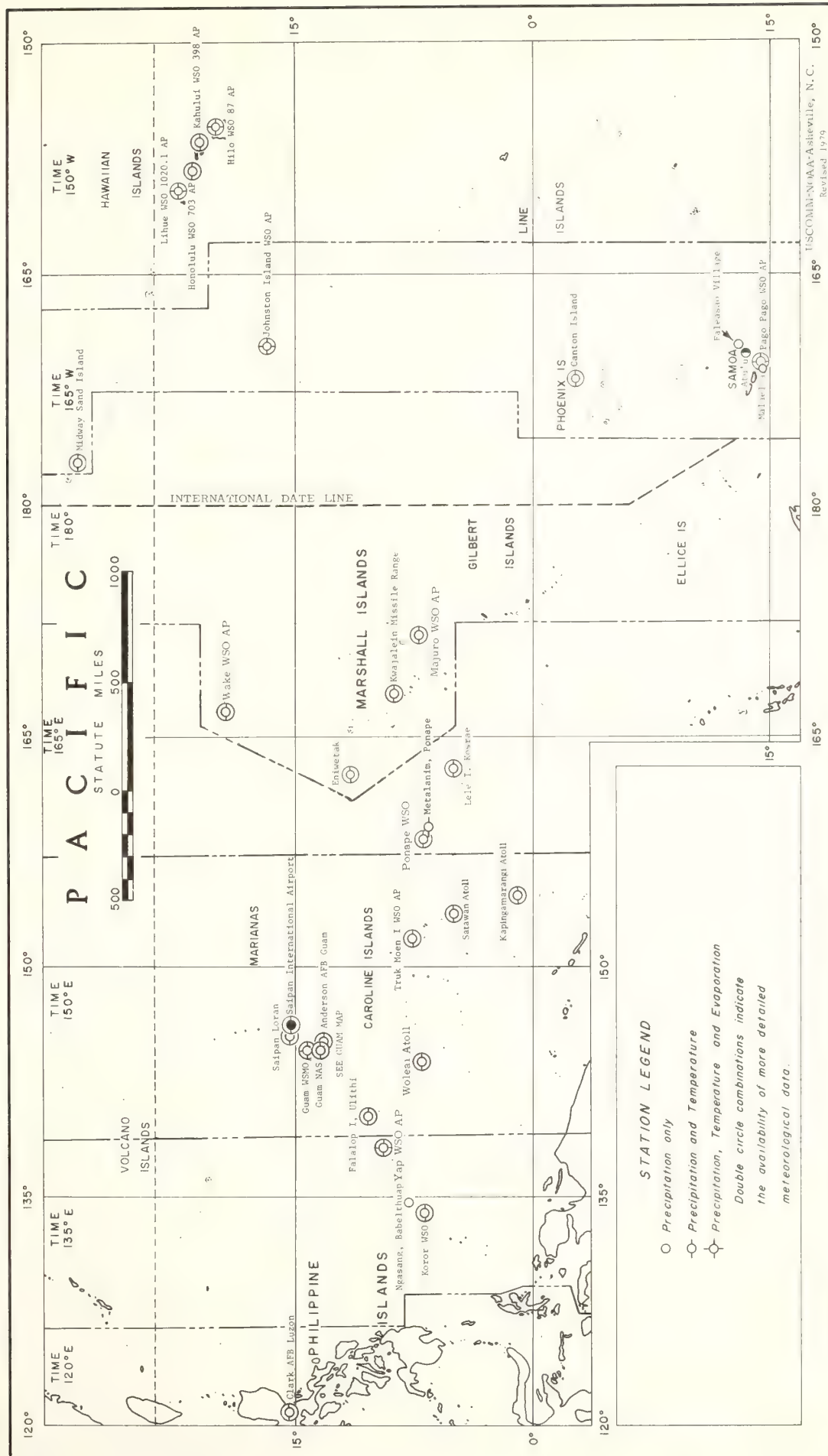
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

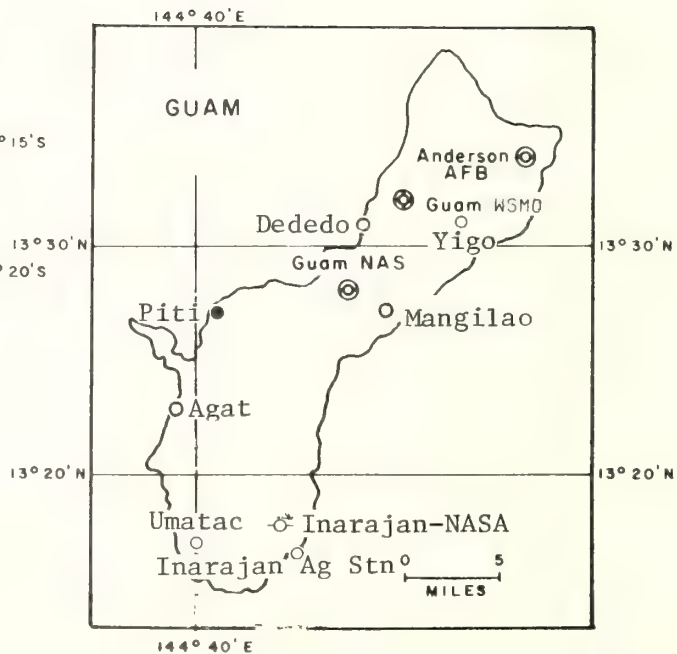
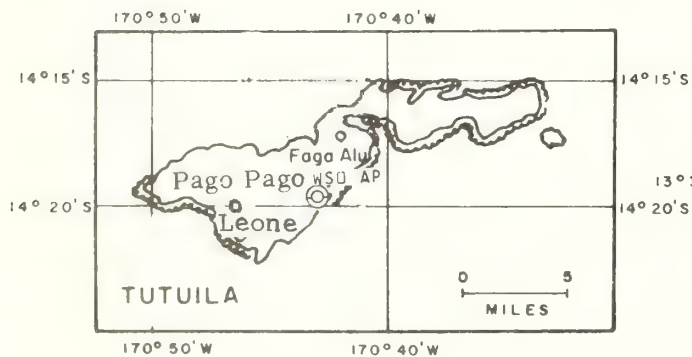
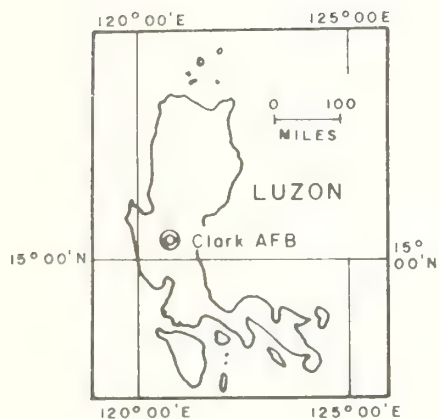
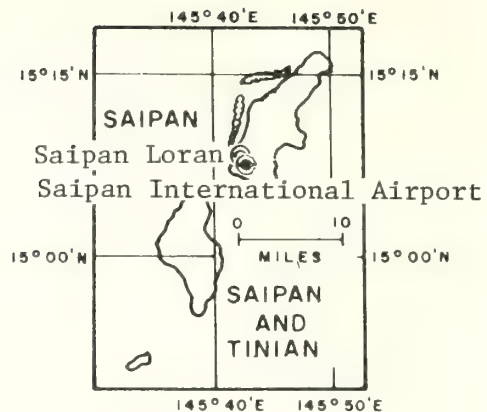
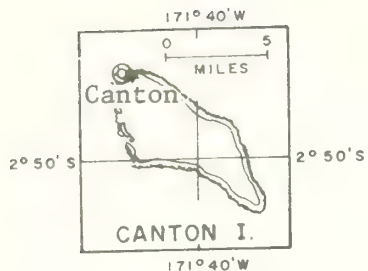
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

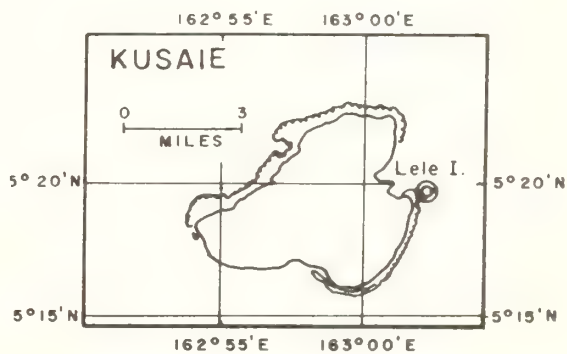
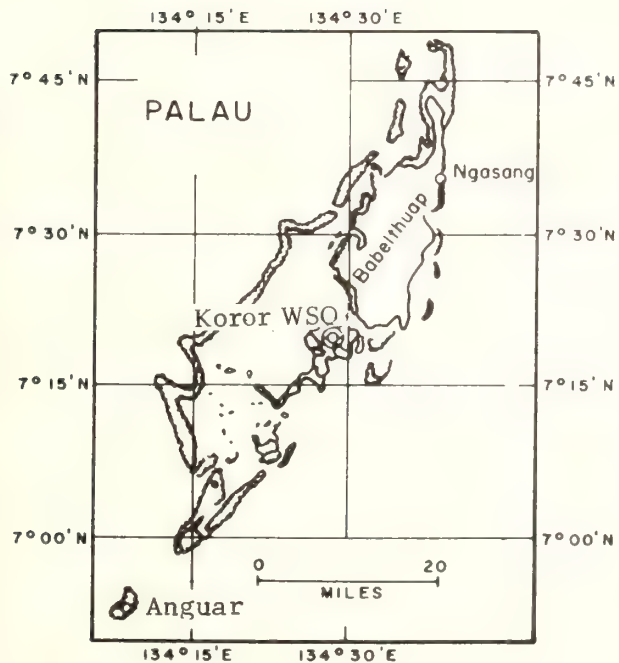
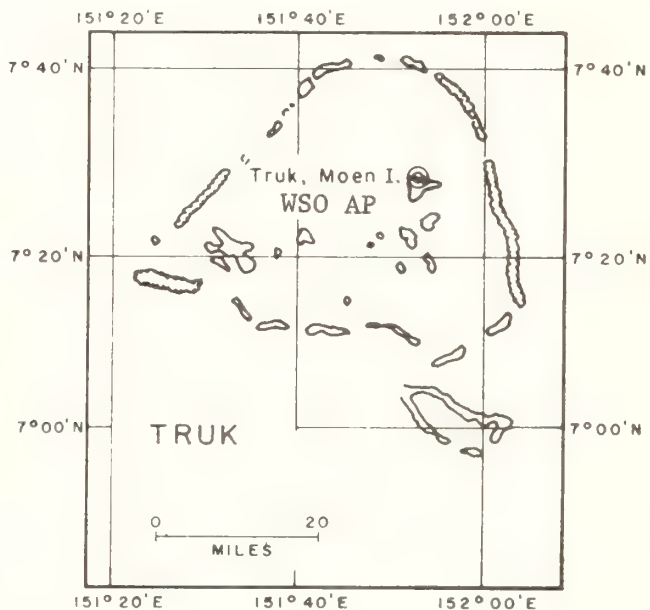
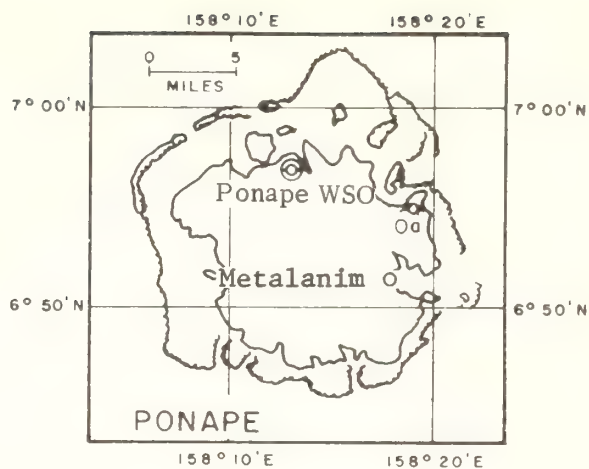
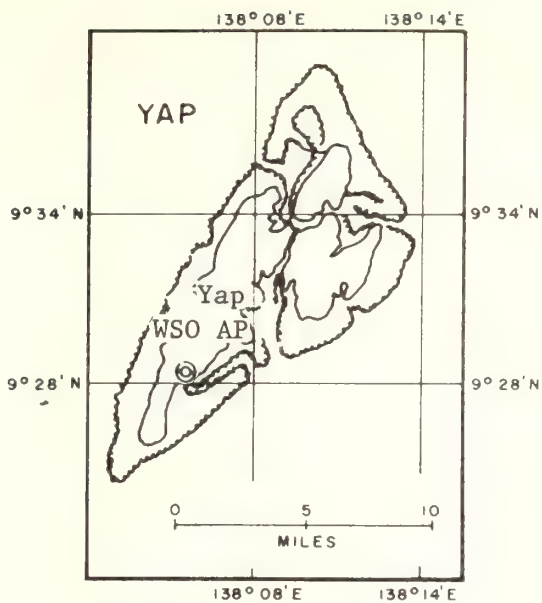
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

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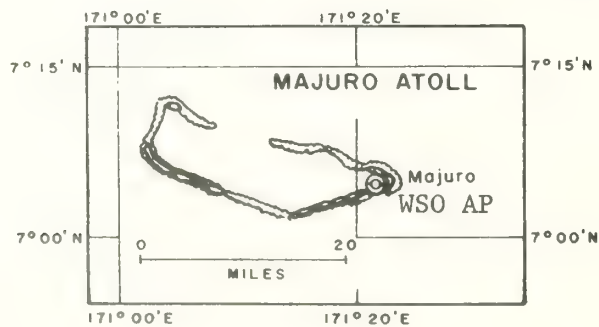
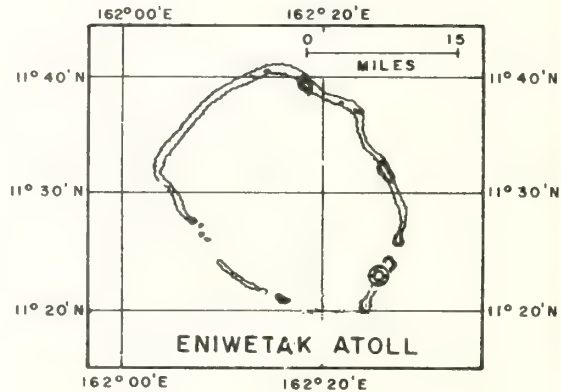
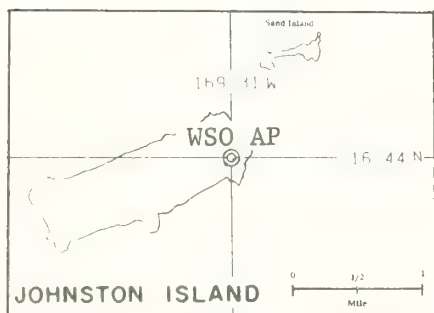
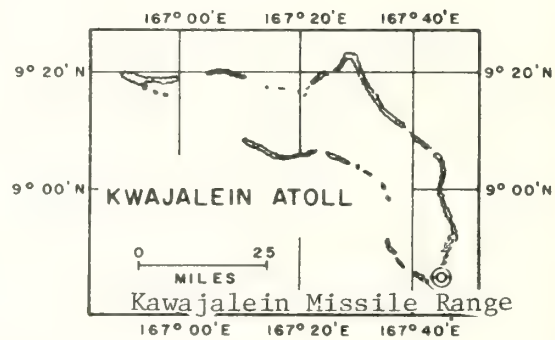
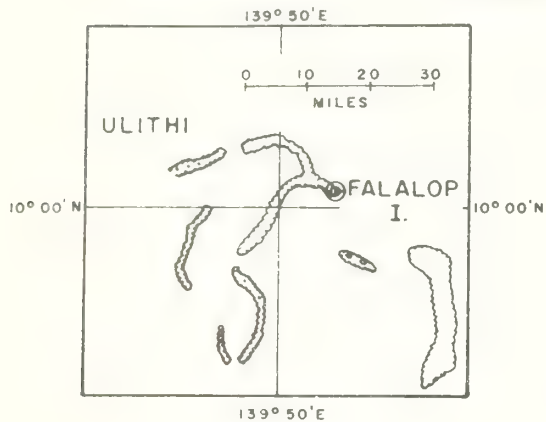
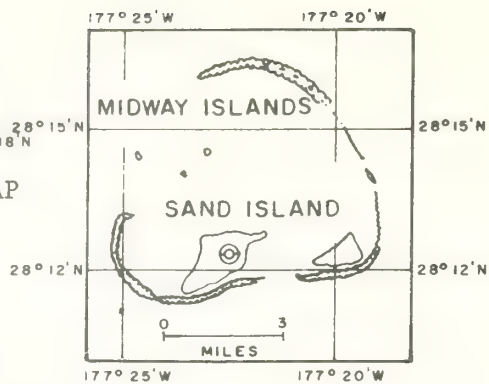
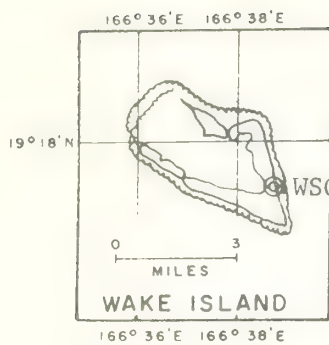








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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	3 STATIONS	94	DATE	28+	
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	32	DATE	17
GREATEST TOTAL PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	26.52		
LEAST TOTAL PRECIPITATION:	10 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	LIHUE WSO AP 1020.1	KAUAI	7.15	DATE	17

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES - PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE TENTHS SKY COVER	SUNRISE TO SUNSET			
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01	.09	10	.49	.50	.99	1.00				1.99	2.00 AND OVER	TOTAL
							GREENWICH CIVIL																	
							12	18	00	06														
GUAM WSMO				28	SW	29		85	84	95	2	2	9	5	4	3	25	32	9.4					
HILO WSO 87 AP	25	1.0	5.5	17++	23	24+	90	84	73	88	2	10	11	3	0	3	29	51	7.4					
HONOLULU WSO 703 AP	7	10.5	11.9	26++	7	01	76	71	53	70	8	4	1	0	0	0	13	73	6.5					
JOHNSTON WSO AP	9	11.1	12.0	23++	7	24+	87	87	76	84	4	13	3	0	0	0	20	78	6.9					
KAHULUI WSO 398 AP	5	11.0	12.2	30	E	06+		70	51	68	5	3	0	0	0	0	8	75	5.7					
KOROR WSO	25	6.9	8.7	24	NW	06	84		81	76	1	3	6	5	4	1	20	37	8.8					
KWAJALEIN MISSILE RGN	10	2.1	7.5	30++	3	18	83	85	75	78	3	5	12	1	5	1	27	-	8.4					
LIHUE WSO 1020.1 AP	6	9.3	10.5	20++	7	05+	80	79	66	75	3	8	4	0	0	2	17	58	6.6					
MAJURO WSO AP	10	1.4	5.3	30	N	18	81	81	75	75	0	8	8	2	4	1	23	72	8.8					
PAGO PAGO WSO AP	9	11.7	13.2	29++	14	16	87	87	79	85	3	6	11	3	2	2	27	12	7.7					
PONAPE WSO	-	-	-	20	NW	05	94	-	77	79	1	5	8	8	2	2	26	28	9.5					
TRUK,MOEN I, WSO AP	24	4.9	8.4	28	NW	07+	86	-	77	78	4	7	8	5	2	0	26	39	9.6					
WAKE ISLAND WSO AP	8	8.4	9.7	25++	7	24	83	85	70	73	1	12	8	3	0	0	24	77	5.3					
YAP WSO AP	24	6.4	8.6	28	SW	08	89		82	83	1	7	7	5	3	1	24	33	9.0					

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell DIRECTOR
NATIONAL CLIMATIC CENTER

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	TEMPERATURE											PRECIPITATION										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW TOTAL	SLEET MAX. DEPTH ON GROUND	DATE	NO. OF DAYS			
									MAX.	MIN.	32° OR BELOW	50° OR BELOW							1.00 OR MORE	1.50 OR MORE	1.00 OR MORE	
													NO. OF HOURS									ABOVE 60°
ISLAND OF KAUAI																						
ANAHOLA 1114	A	74.3	54.0	64.2	78 8	48 30+		16	0	0	0	0	4.26		2.10 18	.0	0		3	0	1	
HANA 1026		85.2M	71.1M	78.2M	89 2	67 17		400	0	0	0	0	4.29		1.43 17	.0	0		3	1	0	
KOLOA 936	A												3.22		.50 3	.0	0		1	0	0	
MAHAULEPU 941.1		84.4	71.8	79.1	3 86	25+	67 30	429	0	0	0	0	10.87	9.02	7.15 17	.0	0		6	2	2	
MAHAULEPU 941.1													5.75		2.90 18	.0	0		2	2	0	
MANA 1026													.29	-.73	.11 25	.0	0		2	0	0	
PT. HAINA 1115	A												13.80		2.44 17	.0	0					
PT. HAINA 1115													3.74	-1.43	1.02 4	.0	0		3	1	0	
PT. HAINA 1115													.45	-1.36	.10 25	.0	0		1	0	0	
WAILANA 440	A												.93	-.83	.24 16	.0	0		3	0	0	
WAILANA 440		80.1	67.9	74.0	82 30+	64 30+		269	0	0	0	0	10.62	-3.23	3.65 17	.0	0		16	5	2	
WAILANA 440		88.8	69.1	79.0	90 26+	65 2		425	12	0	0	0	.08	-.58	.08 16	.0	0		0	0	0	
ISLAND OF OAHU																						
				74.9																		
ISLAND OF MOLOKAI																						
ALOHA STADIUM-HALAWA		86.6M	71.9M	79.3M	92 15	69 15		436	1	0	0	0	2.38		1.70 10	.0	0		1	1	0	
B. T. LAKE 440.1		83.8	76.7M	80.3M	88 13	71 27+		467	0	0	0	0	1.84		.46 1	.0	0		6	0	0	
HONO. CO. OBSERV. 702.2		90.0	70.1	80.1	92 30+	67 30+		457	22	0	0	0	.15		.12 18	.0	0		1	0	0	
HONO. CO. WSO AP 701.1	R	89.0	74.2	81.6	91 29	69 30		503	9	0	0	0	.41	-.26	.29 17	.0	0		1	0	0	
KANEIHE MAUKA 740		83.6	76.3	80.0	86 29+	69 16		456	0	0	0	0	3.39	-.12	.94 17	.0	0		8	2	0	
PT. HALEAKALA 711		84.7M	72.9M	78.8M	86 29+	69 29+		428	0	0	0	0	2.02		.39 3	.0	0		7	0	0	
KOOLAUPU DAM 833	A												5.59		.96 19	.0	0		12	4	0	
MANOA LYON ARBORETUM		89.7	69.9	76.8	87 25+	67 30+		363	0	0	0	0	9.72	1.78 1	.0	0		19	8	1		
NUUANU RES. 4 783													5.98	-.79	1.40 16	.0	0		14	5	1	
PAALOHA 870	A	84.7	69.5	77.1	90 26+	66 9		368	2	0	0	0										
PA. OLO VALLEY 718	R												7.30	-.17	1.10 16	.0	0		20	4	2	
P. LA. MANAWAHUA 725.6		82.1	67.1	74.6	85 30	66 30+		294	0	0	0	0	.51		.11 18	.0	0		2	0	0	
HAIAHOLE 837	A												8.04		1.87 16	.0	0					
HAIAHOLE 837		87.8	68.2M	78.0M	92 11	64 28		394	6	0	0	0	.50	-.17	.16 17	.0	0		2	0	0	
HAIKIKI 717.2	A	89.2	72.3	80.8	91 25+	68 30		481	14	0	0	0			.05 11	.0	0		0	0	0	
HAIRMANAULU EXP. FM 795.1		84.1	73.9	79.0	88 9	70 30+		426	0	0	0	0	1.61		.82 16	.0	0		4	1	0	
HAIRMANAULU EXP. FM 795.1	A												1.70		1.55 18	.0	0		1	1	1	
ISLAND																						
				78.9																		
ISLAND OF MOLOKAI																						
MOLOKAI AP 524		86.9M	69.8M	78.4M	91 24	65 17		409	2	0	0	0	.37		.32 29	.0	0		1	0	0	
ISLAND																						
				78.4																		
ISLAND OF LANAI																						
LANAI CITY 672	A	78.6	64.9	71.9	83 30+	61 10+		213	0	0	0	0	1.94	-.28	1.56 16	.0	0		1	1	0	
ISLAND																						
				71.9																		
ISLAND OF MAUI																						
HALEAKALA EXP. FARM 434	A												1.39		.38 5	.0	0		6	0	0	
HALEAKALA R. S. 338		65.4	46.4	55.9	74 7	41 14+		0	0	0	0	0	1.80	-.02	.71 16	.0	0		6	1	0	
HANA AIRPORT 355		84.5	73.4	79.0	86 13	68 26		425	0	0	0	0	7.15		1.08 20	.0	0		13	5	2	
HONOKOHUA 493	A												2.87		.07 17	.0	0		0	0	0	
KANAPALI AP 453.1		88.9	69.6	79.3	90 29+	61 1		436	11	0	0	0	.12		.07 17	.0	0		0	0	0	
KAHULUI WSO 398 AP	R	89.8	72.1	81.0	93 30+	67 19+		484	13	0	0	0	.11	-.16	.09 28	.0	0		0	0	0	
KAILUA 444		78.9	66.4	72.7	82 29	62 20		235	0	0	0	0	9.34	2.36	2.98 4	.0	0					
KEANAE 346	A												14.60			.0	0					
KIPAHULU 258													4.98	-1.05	.52 10	.0	0		20	1	0	
KULA HOSPITAL 267		75.2	57.9	66.6	78 25	55 3+		54	0	0	0	0	1.43	-.50	.65 17+	.0	0		2	2	0	
LAHAINA 361		89.9	70.0	80.0	2.3 94	28+	66 27+	458	20	0	0	0	.02	-.23	.02 11	.0	0		0	0	0	
PAIA 406													.29	-.56	.08 29	.0	0		0	0	0	
WAILUKU 386	A												.41	-.08		.0	0		0	0	0	
ISLAND																						
				73.5																		
ISLAND OF HAWAII																						
HAWAII VOLCANO NP HQ 54		73.3	55.6	64.5	80 30	52 29+		15	0	0	0	0	5.25	.67	1.39 5	.0	0		14	3	1	
H. C. WSO AP 87	R	81.1	68.3	75.7	86 30	65 23		328	0	0	0	0	13.70	6.26	4.61 21	.0	0		17	6	3	
HAWAII 52.1																						
KAILUA 73.2		80.3	65.3	72.8	84 29+	62 28+		238	0	0	0	0	10.93	3.68	2.32 16	.0	0					
KAPAHU BEACH 34.1		87.1M	70.3M	78.7M	90 30+	68 2+		418	4	0	0	0	9.65		2.82 21	.0	0					
KEAAU 92																						
KE-AHOLE PT 68.13		99.5M	74.4M	82.0M	93 25	71 19+		514	18	0	0	0	15.15		.31 9	.0	0		1	0	0	
K. LAHAINA 11.194													.33			.0	0		9	4	3	
ISLAND																						
				73.5																		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	TEMPERATURE														PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	DATE	SNOW, SLEET			NO. OF DAYS				
									MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	1.00 OR MORE		
									32° OR BELOW	37° OR BELOW	41° OR BELOW	45° OR BELOW												
HAWAII																								
KULANI CAMP 79	68.2M	51.5	59.9M		78 27	44 10		0	0	0	0	0	7.13		1.83	5	.0	0		16	4	2		
PAHALA 21													2.72		.69	11	.0	0		1	0	0		
PUUKOHOLA HEIAU 98.1	90.4M	69.9M	80.2M		93 19	67 29+		461	26	0	0	0	.37		.24	16	.0	0		0	0	1		
SOUTH KONA 2.31	79.2	60.1	59.7		84 8+	54 9		145	0	0	0	0	2.63		.83	16	.0	0		21	1	5		
WATAKEA SCD 88.2													22.88		7.10	21	.0	0						
ISLAND			72.9										8.09				.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
SEPTEMBER 1980

DAY OF MONTH

STATION

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
MALEIA A 70	A	1.84														.02	49.1	28														.05
MALEIA A 70	A																															
MALEIA A 70	A																															
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DAILY PRECIPITATION

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PAUULO 221	5.93	.04				.12						.15	.01	.20	.14	.86		.15	.03		.05	2.02	1.91							.11	.01	.13
PAHALA 21	2.72				.01	.01						.69	.32			.20		.27	.10	.05	.37			.28		.25	.17	T				
PAHOA 65	19.59			.06	.57	1.48				.58	.26	.42	.07	.43		1.56	.45	.28	.21	.22			12.23	.10		.11	.15			.10	.31	
PAPAIAU 144.1	21.71		.47		.16	2.55			.47			.15	.35	.22		2.05	.42	1.40	.10	.13			8.90	.12	.09	.02					.37	.07
PAPAIAU MAUKA 140.1	29.80		.71						3.70							3.85							14.10									
PIIHONUA 89	18.80																															18.80
PUUKOHOLA HEIAU 98.1	3.20	.01			.12												.24															3.20
PUU LEHUA 73	2.88			.01					.60	1.00	.40	.01	.03			.04	.05							.32				.01	.01			
PUUHONUA-O-HONAUNAU	16.10	.54	.06	.11	2.00	.55	.03		.14	.34	.15	.41	.56	.30	1.13	.81		.40	.14	.18	.90	2.20	4.50	.16	.03	.06	.02	.05	.02		.15	.16
S GLENWOOD	2.63	.05	.18		.06							.10	.09	.10	.02	.05	.25	.83	.02	.11	.02		.03		.02	.05	.08	.20	.31	.02		.06
SOUTH KONA 2.31	1.89	T			.22	.16	T	T				.32	.02	.09		.85	.87	.89				.98		.02	.05	.08	.20	.31	.02		.06	
UPOLOU POINT USCG 159.2	22.88	1.08	.56		.13	3.79	.25	.06	T	.45		.15	.49	.64		.85	.87	.89	.27	.54	.06	.02	1.10	7.10	2.70	.15	.10	.11	.03	.01		.48
WAIKALOA SCD 88.2	1.25															.13	.95	.02														.15
WAIKALOA-BOIS CAS 95.8																																

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	75 53	76 54	76 55	75 55	74 56	75 56	76 58	78 59	76 52	74 54	74 53	75 58	74 53	77 56	75 57	72 58	69 51	73 53	75 53	76 56	75 56	70 58	74 57	73 50	70 57	75 48	74 49	75 49	74 48	75 48	74 48	75 48	74.3 54.0
KEKAHA 944	MAX MIN	94 65	91 67	92 69	92 68	92 68		92 71	92 66	93 68	89 67	88 68	88 67	92 68	91 65	91 66	89 68	88 67	86 67	86 68				91 66	89 68	85 71	86 67	88 66	87 65	88 68	85 65	88 68	89.4 67.4	
KILAUEA POINT 1133	MAX MIN		89 70	88 73	85 71	86 74			83 73	86 74	87 73	88 73	82 72			86 70	82 69	83 67	83 68	82 70				86 72	84 68	84 74	86 72	87 70			86 70	87 70	85.2 71.1	
LIHUE WSO AP 1020.1	MAX MIN	85 75	85 75	85 74	85 74	85 77	83 75	85 77	84 76	84 77	85 76	81 75	84 78	84 75	85 76	85 76	82 74	82 76	83 77	83 77	86 73	86 76	85 79	86 78	84 75	85 69	85 68	84 68	87 75	85 69	84 67	84.4 73.8		
WAIHAI LOWER 1054	MAX MIN	82 64	80 68	80 70	78 70	80 70	80 70	82 70	80 68	82 70	80 68	78 68	80 68	78 66	80 68	80 68	78 68	80 68	78 66	80 66	82 66	80 70	80 68	78 68	80 68	80 68	82 64	80 68	82 68	80 64	82 64	80.1 67.9		
WAIMEA 947	MAX MIN	89 69	86 65	89 67	90 66	88 66	89 69	90 70	90 69	90 71	90 71	89 70	90 70	89 68	90 69	89 69	90 70	90 70	88 72	90 71	90 70	89 69	89 71	88 68	88 69	89 69	90 70	88 71	88 70	86 69	88 67	88.8 69.1		
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	87 72	88 73	87 72	85 73	86 73			87 72	89 72	87 71	88 74	86 72	88 73		92 69	86 71	85 72	87 71	86 71				83 71	82 72	85 71	85 74	73			88 72	88 71	86.6 71.9	
B Y U LAIE 903.1	MAX MIN	84 78	83 77	84 78	82 77	82 78	80 78	84 79	84 80	85 79	84 81	85 78	84 79	88 77	84 77	84 75	82 76	80 79	84 79	85 81	84 78			84 79	84 72	84 74	85 71	84 72	84 71	85 74	85 74	84 73	83.8 76.7	
HONOLULU OBSERV 702.2	MAX MIN	90 68	91 68	90 72	91 69	90 73	92 76	90 74	91 70	91 68	87 68	89 71	88 70	91 68	91 70	91 69	88 70	87 69	87 67	90 68	90 69	90 73	91 71	91 71	89 71	88 70	91 71	92 68	91 69	91 70	92 67	90.0 70.1		
HONOLULU WSO AP 703	MAX MIN	89 74	89 75	89 75	90 72	89 78	89 77	89 77	89 75	87 73	90 72	88 74	89 75	88 75	90 73	87 73	86 72	89 71	89 72	90 72	88 76	89 77	90 74	88 73	89 75	90 74	89 73	90 75	90 71	89 75	89 69	89.0 74.2		
KANEHE MAUKA 781	MAX MIN	83 75	84 78	85 76	84 76	83 77	82 77	84 76	83 78	84 76	85 77	86 76	84 77	86 76	85 74	86 74	85 74	82 69	81 76	84 80	85 76	82 77	78 77	85 76	85 77	85 78	82 76	85 77	85 77	83 76	84 80	83.6 76.3		
KII-KAHUKU 911	MAX MIN	83 74	84 72	83 73	83 72	84 74	85 74	84 75	84 75	85 74	83 75	84 72	84 75	84 75	84 74	69 70	70 75	85 70	86 75	85 75	86 75			86 75	86 71	85 72	85 73	85 75	86 76	85 76	86 69	84.7 72.9		
MANDA LYON ARBORETUM	MAX MIN	83 68	83 69	85 69	79 70	84 70	81 71	83 71	81 69	85 71	85 69	87 70	87 71	86 70	83 69	80 70	87 69	84 68	82 67	85 70	83 72	85 70	83 72	85 72	87 70	84 69	85 70	83 69	85 70	85 68	85 67	83.7 69.9		
OPAEULA 870	MAX MIN	81 70	85 69	85 69	85 70	85 69	83 73	85 71	83 66	84 75	85 69	86 69	86 69	83 69	80 69	86 70	86 70	82 67	82 68	82 72	84 71	88 70	88 69	88 70	88 70	90 70	90 68	82 68	81 68	89 67	80 69	84.7 69.5		
PUU MANAWAHUA 725.6	MAX MIN	83 67	83 67	83 67	84 69	83 69	82 68	82 67	84 66	82 67	82 68	79 67	83 68	82 67	82 67	81 67	80 66	81 66	80 66	84 67	83 67	82 68	82 67	83 67	82 67	78 67	81 66	83 67	82 66	82 66	85 66	82.1 67.1		
WAIALUA 847	MAX MIN	86 70	88 70	80 69	89 70	91 68	86 70	89 65	87 65	91 65	92 65	88 67	86 66	86 66	83 67	84 67	87 66	88 66	88 66	88 66	86 66	89 66	88 66	88 66	86 66	89 66	90 66	88 66	86 66	89 66	85 66	87.8 68.2		
WAIKIKI 717.2	MAX MIN	88 73	89 73	89 73	88 74	89 72	90 77	88 75	90 73	89 71	90 71	91 74	90 74	90 75	89 73	87 71	88 70	90 69	89 70	88 74	90 75	91 73	88 73	88 73	87 73	91 69	89 71	90 69	90 72	89 68	89 68	89.2 72.3		
WAIMANALO EXP FM 795.1	MAX MIN	84 74	83 73	85 74	83 75	83 75	84 76	85 76	84 75	88 75	84 75	85 76	85 75	85 77	85 75	85 75	80 70	79 71	84 72	84 74	85 75	85 75	85 76	85 76	84 72	85 71	84 72	84 72	85 74	85 73	85 70	84.1 73.9		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	87 71			87 70	86 71	87 72		89 68	88 71	80 66	89 71	80 70	89 72	88 72	84 71	86 65	87 68	86 69	87 70	87 70	90 70	89 69	91 70	87 70	86 69	87 69	87 70	87 71	86 68	86.9 69.8			
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	85 67	84 65	84 66	83 66	84 69	84 68	83 68	83 66	84 64	81 66	83 66	84 65	82 67	83 66	84 65	78 67	82 67	82 67	82 65	83 67	82 67	85 68	83 66	81 65	81 65	84 65	84 65	83 66	85 67	84 68	83.0 65.8		
LANAI CITY 672	MAX MIN	78 65	77 64	77 64	79 64	81 68	79 67	80 63	78 61	80 61	79 65	79 64	83 66	81 67	76 64	73 64	79 62	79 63	79 63	79 65	78 66	78 67	78 65	78 64	78 65	80 64	78 65	77 66	80 66	83 66	78.8 64.9			
ISLAND OF MAUI																																		
HALEAKALA R S 338	MAX MIN	63 45	67 47	67 49	63 46	64 53	71 54	74 49	68 45	65 41	64 42	63 41	65 44	65 48	61 41	65 44	59 51	60 44	64 44	63 43	63 45	64 46	65 47	68 47	64 44	65 50	68 50	68 48	68 47	69 47	68 49	65.1 46.4		
HANA AIRPORT 355	MAX MIN	84 70	84 70	85 70	85 71	85 73	85 75	85 79	85 79	85 75	85 79	84 71	85 72	86 73	83 77	85 75	82 75	85 78	85 75	85 78	84 76	85 78	84 76	85 78	84 76	85 78	84 76	85 78	84 76	85 77	84 79	84.5 73.4		
KAANAPALI AP 453.1	MAX MIN	90 61	90 67	90 69	88 70	90 74	89 74	90 70	88 67	89 66	88 71	89 69	87 67	89 73	87 69	89 70	86 67	88 70	90 67	89 70	89 73	89 72	90 68	89 68	89 71	89 68	88 72	88 73	88 72	87 70	87 72	88.9 69.6		
KAHULUI WSO 398 AP	MAX MIN	89 76	89 68	88 69	92 74	91 77	93 77	92 77	91 71	92 67	91 69	92 69	91 69	92 71	89 69	87 74	88 72	89 68	89 70	88 67	89 75	89 78	88 75	89 75	89 69	88 71	88 70	87 73	88 76	88 75	93 70	89.8 72.1		
KAILUA 446	MAX MIN	79 67	79 65	77 65	80 69	79 69	79 66	80 66	79 66	80 66	81 66	80 69	80 69	79 65	78 63	78 63	77 67	78 67	79 67	77 63	77 63	77 63	75 63	78 68	79 68	80 68	81 68	81 67	81 68	82 69	79 69	78.9 66.4		
KEAWAKAPU BEACH 260.2	MAX MIN				90 76	94 74		93 71	91 68	91 67	89 69	88 73	88 69	89 73	90 70	89 69	85 70	93 71	91 69	92 69	89 68	91 69	92 70	91 69	92 70	91 69	90 70	92 70	87 66	87 70	88 70	90.1 69.7		
KULA BRANCH STN 324.5	MAX MIN	76 60	78 59	78 59	76 60	76 61	77 63	78 62	78 57	76 56	75 57	74 59	77 58	75 60	75 60	77 60	73 59	75 57	76 58	78 57	77 60	76 61	78 60	77 59	76 59	79 58	79 58	76 60	75 60	80 56	77 59	76.6 59.1		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	DAY OF MONTH																															AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
KAHALA PT 150	MAX MIN	74 55	76 56	75 55	73 56	76 56	75 59	77 58	75 58	75 56	76 58	75 59	76 58	74 58	75 58	71 61	75 57	76 58	76 58	76 58	75 60	76 59	76 58	75 58	78 57	76 58	72 57	75 56	77 58	74 59	75.2 57.9	
LAHAINA 361	MAX MIN	93 69	90 69	93 72	94 71	87 72	87 68	93 66	91 70	89 70	89 69	92 72	85 71	85 66	90 68	83 74	89 73	91 69	90 71	91 70	86 68	90 67	91 72	91 75	92 71	87 69	90 66	94 67	93 70	91 72	89.9 70.0	
ISLAND OF HAWAII																																
HAWAII VOLCNS NP HQ 54	MAX MIN	69 59	70 55	74 55	74 55	72 59	71 57	72 55	75 54	72 52	74 55	78 59	69 52	75 55	69 56	75 59	68 56	74 53	75 57	75 55	74 58	73 59	71 57	69 53	74 54	74 55	75 57	75 55	76 56	77 52	80 55	73.3 55.6
HILO WSO AP 87	MAX MIN	80 70	83 70	84 66	82 68	83 72	85 69	85 67	83 67	84 67	84 69	84 66	78 69	82 70	78 68	84 67	83 68	85 69	84 69	81 70	80 71	81 66	85 65	84 70	84 69	84 68	84 67	84 69	85 66	86 69	83.1 68.3	
KAHALA PT 150	MAX MIN	77 67	76 67	82 64	82 65	83 67	83 69	82 66	79 67	81 67	79 64	81 68	78 64	78 62	78 64	80 66	80 64	80 64	81 65	82 62	82 64	84 66	79 68	77 67	80 65	79 63	79 67	80 62	84 64	83 65	80.3 65.3	
KAPOHO BEACH 31 11	MAX MIN	87 66	86 68	86 69	88 70	86 73	89 73	90 72	87 69	88 70	89 73	90 69	87 70	88 69	90 70	86 70	86 70	86 70	86 70	87 70	88 73	87 72	85 69	87 70	87 70	87 70	89 70	87 70	88 72	86 70	90 72	87.1 70.3
KEAHOLE PT 68 12	MAX MIN	92 75	90 74	91 75	91 72	90 74	90 77	89 75	90 76	88 74	88 75	90 74	87 75	88 76	88 74	88 75	87 73	87 71	90 71	90 74	90 75	88 77	88 76	90 75	90 74	90 75	93 72	90 74	90 75	91 72	92 74	89.5 74.4
KULANI CAMP 79	MAX MIN	67 55	67 50	67 50	66 51	68 55	68 59	67 46	67 58	68 58	70 44	70 59	68 47	65 52	68 54	63 51	68 56	69 57	68 47	68 49	68 52	66 54	64 50	66 49	67 49	77 47	78 48	68 47	70 46	70 46	68.2 51.5	
MAUNALI PT 191 1	MAX MIN	79 62	78 62	80 56	80 65			80 59	80 54	80 62	87 60	79 60			76 55	78 62	78 53	80 55	79 62			76 62	78 61	78 60	81 56	78 60			81 54	84 51	79.5 58.6	
MAUNA KEA OBS 111 2	MAX MIN																															
MAUNA LOA SLOPE OBS	MAX MIN	53 37	54 35	54 37	57 39	57 42	58 41	56 43	59 42	58 43	62 46	60 43	63 46	64 44	59 42	53 39	48 35	51 32	53 36	51 37	52 35	51 37	51 38	52 38	52 39	54 39	55 39	56 39	54 36	54 36	60 38	55.4 39.1
MOUNTAIN VIEW 91	MAX MIN	78 63	78 63	80 61	81 61	75 64	79 64	80 65	82 64	76 61	80 62	82 65	74 63	82 62	73 64	82 62	74 64	81 63	81 64	77 63	82 64	78 67	82 64	74 60	79 61	83 63	80 62	78 62	82 63	82 60	83 63	79.2 62.9
NAALEHU 14	MAX MIN	82 73	83 68	82 65	82 66	81 69	86 73	84 71	84 66	82 67	83 68	80 69	85 64	78 67	83 67	79 65	84 64	82 64	81 66	85 67	82 72	83 67	80 68	82 66	83 66	84 64	88 66	87 64	84 65	82.8 66.9		
OOKALA 223	MAX MIN	80 69	79 71	79 68	82 69	82 69	84 70	83 69	83 68	81 68	83 69	81 69	82 69	82 68	80 68	80 69	80 70	81 68	82 69	82 69	82 70	78 69	80 69	80 68	81 69	82 69	81 69	83 70	82 68	80 68	81.2 68.8	
PIPIHALE 2 24 1	MAX MIN	84 61	82 61	80 60	84 61	86 62	84 63	83 64	83 61	80 60	83 63	81 61	80 62	82 61	80 62	81 58	83 61	83 62	83 62	84 59	84 60	85 61	84 58	82 61	80 59	80 60	84 59	84 61	87 59	82 59	85 59	82.8 60.6
POKOHOLA HETAU 98 1	MAX MIN	91 71	91 68	91 69	91 78	88 72	91 70	91 70	91 68	90 77	90 75	92 72	90 70	87 67	90 71	91 69	91 78	92 68	93 67	90 68	90 70	91 69	89 67	89 68	90 67	90 68	90 67	91 68	91 67	90 68	90.4 69.9	
SOUTH KONA 2 31	MAX MIN	82 60	83 59	82 57	84 60	82 65	79 60	82 62	84 59	82 54	80 63	82 60	80 59	80 59	82 60	77 63	72 60	80 59	77 61	72 59	81 61	80 64	81 63	76 64	72 60	74 59	75 60	82 57	80 58	74 58	78 59	79.2 60.1
UPOLU POINT USCG 159.2	MAX MIN	87 69	87 69	87 63	87 70	85 72	88 68	87 72	88 70	89 72	87 71	87 71	87 71	87 71	83 71	86 72	82 71	78 73	86 73	87 74	88 72	88 72	85 72	86 72	86 71	85 70	86 72	86 72	87 72	87 73	86.2 71.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	87 80	88 79	87 78	87 79	86 79	88 80	87 79	88 80	86 80	89 79	87 79	89 80	89 80	89 79	88 78	88 79	85 79	85 77	85 75	88 80	88 80	86 79	87 77	88 77	88 80	87 77	88 78	87 76	87 78	89 77	87.4 78.6	
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	85 73	85 73	85 78	85 76	86 77	86 79	84 75	86 80	85 79	86 80	85 79	85 76	85 77	84 74	82 74	82 77	86 75	83 74	83 79	83 78	83 76	84 76	86 75	79 73	84 77	86 76	81 75	84 75	84 74	85 73	84.3 76.1	
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN																																
CLARK AFB LUZON	MAX MIN	91 79	90 77	84 79	88 79	90 79	90 79	90 79	91 79	91 79	90 81	84 81	84 77	79 75	82 75	84 75	84 75	90 75	81 75	88 75	91 75	90 77	88 79	90 79	88 75	90 75	91 75	90 75	90 77	91 75	88 75	87.9 77.0	
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	88 74	90 71	88 73	83 74	86 75	83 74	86 74	81 76	78 73	83 75	87 74	87 74	87 73	87 73	85 71	88 71	88 74	88 73	89 71	85 72	88 70	88 74	88 74	81 73	86 72	80 73	82 72	88 74	85 75	81 75	85.5 73.2	
INARAJAN - NASA	MAX MIN	86 74	86 75	88 75	89 74	88 74	86 75	86 67	86 64	84 69	86 69	86 70	88 70	89 74	89 72	89 72	88 76	89 75	89 75	88 75	87 74	89 74	89 75	88 75	88 74	88 75	88 74	88 75	88 74	88 77	85 64	87.5 73.0	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	90 80	90 78	91 78	91 79	91 79	93 76	90 77	88 78	90 77	91 80	90 80	93 81	94 79	95 80	89 79	89 79	90 78	91 78	91 79	89 77	90 80	89 78	90 79	90 78	89 78	91 79	90 78	90 78	89 77	90 77	90.5 78.6	
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	85 75	87 76	89 77	82 74	82 73	83 73	85 74	86 78	86 79	86 78	88 76	87 79	87 79	89 78	89 78	88 78	89 77	89 77	89 77	90 77	89 77	89 77	90 76	90 76	89 76	87 73	82 73	85 75	87 80	87 76	82 74	86.8 76.4
KWAJALEIN MISSILE RGN	MAX MIN	89 77	87 76	88 76	87 78	88 77	87 75	83 72	86 77	88 75	89 79	87 78	83 73	90 80	89 79	89 80	90 79	92 77	89 73	89 76	88 78	88 77	90 81	86 75	89 80	88 78	87 77	88 76	88 73	87 70	89 79	87.9 76.7	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	88 77	87 79	89 77	87 75	87 75	85 75	87 75	88 75	88 77	85 75	86 73	87 76	88 78	89 78	88 78	88 79	85 72	88 80	89 78	84 72	88 72	86 72	87 72	87 77	88 76	88 80	88 77	87 76	88 79	87 76	87.2 76.2	
METALANIM	MAX MIN	88 74	88 74	85 74	88 75	88 74	86 76	87 74	87 72	89 74	90 73	84 75	88 72	86 73	89 72	89 72	87 73	87 72	87 71	90 73	89 73	88 73	86 74	88 74	88 72	90 72	89 75	82 74	87 74	89 75	88 75	87.6 73.5	
PONAPE WSO	MAX MIN	90 73	86 74	83 74	87 74	87 73	87 75	90 73	88 72	90 75	91 74	87 75	90 74	89 74	91 73	91 74	88 75	85 74	92 73	89 74	86 76	90 74	83 74	87 74	91 72	90 73	85 73	84 74	85 74	90 73	90 73	88.1 73.8	
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	90 75	88 73	88 74	87 73	85 73	88 78	85 70	89 78	89 74	89 75	90 74	83 75	87 75	89 76	90 75	88 74	89 74	89 75	88 74	87 73	88 73	87 72	86 72	88 74	89 75	88 78	89 76	90 79	88 79	87 78	88.0 74.9	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 73	83 73	87 73	86 72	87 74	85 72	85 74	87 70	87 76	87 74	87 78	88 75	88 75	83 72	88 74	88 74	84 72	88 73	87 72	88 72	89 71	87 72	88 74	87 74	88 72	84 72	89 76	89 78	89 77	86 75	86.9 73.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
SEPTEMBER 1980

STATION	TIME	DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEKAHA 944	4 INCH MAX MIN	95 75	95 80	94 80	94 80	94 82	-	93 80	91 80	92 79	91 81	90 81	90 79	92 80	93 80	92 80	91 79	92 81	94 81	93 81	92 78	-	93 80	90 81	92 81	92 80	93 80	94 78	91 78	90 79	92 79	92.3 79.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII
SEPTEMBER 1980

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
SEPTEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
K. A. BRANCH STN 124.5	4	MAX	-	74	76	75	75	-	-	75	74	74	71	71	-	-	72	71	71	70	70	72	-	-	73	74	73	74	75	-	-	75	74	73.3
		MIN	-	70	73	72	71	-	-	71	70	67	69	69	-	-	69	70	67	68	68	-	-	-	69	70	70	70	71	-	-	70	71	69.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	DAY OF MONTH																															TOTAL OF AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LIHUE WSO AP 1020.1	EVAP	.37	.32	.44	.25	.34	.27	.15	.32	.34	.32	.33	.25	.29	.29	.31	.37	-	-	14	.24	.30	.30	.23	.16	.32	.28	.28	.11	.28	.27	8.438
	WIND	197	217	214	202	209	221	212	180	144	166	143	283	206	187	124	129	60	1	208	186	200	158	179	83	90	84	98	121	103	455.4	
	MAX	86	85	85	85	86	81	80	84	84	85	85	85	85	86	86	86	86	85	82	86	84	82	80	86	85	86	85	83	85	84.4	
	MIN	65	65	66	66	67	68	67	67	66	66	67	66	67	68	68	66	65	65	65	66	67	66	66	67	65	64	64	64	65	62	65.9
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.26	.45	.45	.37	.30	.64	.34	.30	.30	.30	.32	.26	.45	.30	.45	.45	.15	.20	.30	.45	.30	.30	.35	.31	.30	.30	.30	.30	.30	10.10	
	WIND	27	25	24	20	28	41	30	20	20	29	23	12	19	22	21	19	12	22	10	17	25	26	24	22	26	15	15	14	16	16	640
	MAX	96	96	95	94	93	94	90	92	92	90	92	89	94	92	95	98	94	93	94	90	95	93	93	89	95	89	95	94	90	94	93.0
	MIN	68	68	69	69	70	71	71	69	68	67	67	70	69	69	70	69	68	69	68	67	70	68	67	68	69	69	68	67	69	68	68.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PA 1211																																
EAST OF 180TH MERIDIAN																																
WH LHN IS WSO AP	EVAP	24	40	33	28	18	33	26	34	36	26	37	26	37	20	41	30	42	29	21	17	34	25	25	21	29	31	38	30	29	25	8.85
	WIND	140	136	162	211	148	120	217	192	190	123	172	141	124	104	109	156	221	241	133	133	163	130	107	98	169	172	175	131	145	132	4595
PA PAC WSO AP	EVAP	12	20	34	25	15	48	-	16	26	30	23	27	18	78	13	18	-	-	17	-	15	16	26	-	24	27	25	-	-	19	7.468
	WIND	134	64	147	147	141	136	118	167	164	195	222	198	104	123	53	272	278	166	161	185	148	153	183	210	196	141	175	77	29	4487	
	MAX	94	86	92	94	93	98	98	92	96	93	95	94	93	93	95	90	-	91	93	94	94	88	92	96	95	94	91	92	86	88	92.8
	MIN	74	73	73	74	75	72	75	74	72	75	72	75	77	76	73	73	-	73	75	74	72	74	73	73	73	73	71	72	72	72	73.5
WESTERN PACIFIC ISL. NORTH OF 1° N																																
JAM WSO	EVAP	20	17	25	06	16	18	02	10	-	08	19	15	10	21	09	23	35	11	18	09	18	23	29	17	27	19	-	13	13	29	5.148
	WIND	37	26	41	62	91	90	71	96	75	57	40	28	24	28	17	35	38	21	29	4	31	37	61	42	31	32	84	70	96	112	1506
	MAX	92	93	90	84	87	85	84	80	81	81	91	90	91	94	89	95	95	94	97	81	94	91	92	84	91	86	82	86	82	72	87.8
	MIN	72	72	74	73	72	73	72	72	74	71	70	70	73	73	72	72	73	73	72	73	71	74	72	71	71	72	72	70	68	70	71.9
MARSHALL AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP	15	14	10	25	18	06	18	14	15	18	23	21	04	06	17	14	11	17	12	25	11	05	25	14	23	08	17	24	21	27	4.78
	WIND	44	77	88	67	62	109	167	207	172	127	84	102	97	52	48	50	53	52	21	32	12	17	35	17	51	134	182	178	174	140	2651
	MAX	92	88	86	91	92	80	86	87	85	86	87	90	90	83	95	90	81	92	89	96	89	86	96	90	93	93	87	90	86	79	88.5
	MIN	77	73	73	71	73	72	72	73	73	72	72	73	72	72	71	73	72	70	74	74	73	73	73	75	73	72	71	73	73	72	72.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP.	EVAP.	SPECIAL /SEE NOTES	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A			LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600					LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1,118		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175					LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9	8A	8A	CG		KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			NOREEN Q BAPTISTA
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A			LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250		6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIWA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	8A	8A			B Y U (HAWAII) CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760					DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565					J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170					NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21					HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260					WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSFO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO		21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO		21 42	157 59	15					KUILIMA HYATT R HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU													
KAILUA FIRE STA 791.1	2683	01	KOOLAUPOKO		21 24	157 45	10						KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	8A				HAWAII STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIAHAWA 841	A 3734	05	WAIALUA		21 35	158 11	40		7A				WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A				WAIALUA SUGAR CO INC
KILOFAHUA 811	4500	01	AHU		21 41	157 58	15	8A	8A			G	JEFF WALLACE
KOOLAU DAM 833	A 4766	05	WAIKANA		21 30	157 58	1160		8A				US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	280					C	HON BOTANIC GARDENS
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A				NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A			G	LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MANAWAHI 1 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					C	FAA
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI				BOARD OF WTR SUPPLY
OPAUELA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P				D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A				CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO		21 35	157 54	20					C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUEKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					C	JOHN W VOLLRATH
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A				RICHARD FEINER
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1330		7A				ROBERT E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A				UNIVERSITY OF HAWAII
WAIKANA DAM 863	8945	05	WAIKANA		21 30	158 03	854					C	WAIALUA SUGAR CO INC
WAIKANA 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			C	WAIKANA WATER CO LTD
WAIKANA KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A				WAIKANA COUNTRY CLUB
WAIKANA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A			G	WAIALUA SUGAR CO INC
WAIKANA 798.2	A 9231	04	WAIANAE		21 27	158 11	10		7A				BEN MAYES
WAIKANA 836	A 9261	03	EWA		21 28	157 56	800		MO				WAIKANA WATER CO LTD
WAIKANA 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI				WAIKANA WATER CO LTD
WAIKANA 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.1	9534	01	OAHU		21 20	157 43	120					C	U H WAIMANALO EXP FARM
WAIMA 892	9593	05	WAIALUA		21 38	158 04	330					C	WAIALUA SUGAR CO INC
WAIKANA 750	A 9738	03	EWA		21 23	158 01	59		8A				WAIKANA WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A				ART MONTOYA
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR				MOLOKAI RANCH CO LTD
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140					C	KALUA KOI GOLF COURSE
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825					C	DEL MONTE CORPORATION
MAUNALO A 511	A 6190	01	MOLOKAI		21 08	157 13	1070					C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A				HAWAIIAN AIR
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI				MOLOKAI RANCH CO LTD
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI				U S D A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A				DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A			C	DOLE COMPANY
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO				U S D A
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI				KOELE COMPANY
WAIKANA 885	A 9021	01	LAHAINA		20 47	156 52	2000		WM				KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		VAR			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	3520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH CO
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	9070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIIEHU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

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HAWAII AND PACIFIC
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEMAUMAU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWAII VOLCNS NP HQ 54	A 1339	01	N KOHALA		20 14	155 50	580		6A			K L BOND
HAW'N OC VW EST 3.9	1385	02	KA'U		19 07	155 47	2900					RUSSEL P SMITH
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALOA 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					CLOSED 07/28/80
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2586	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A		G	UH HI AGRI EXP STN
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPAHU BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINI POWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT 68.13	3910	04	N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIIWA CAMP 23.1	3925	03	KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEAIAHOLE 3 29.11	3985	04	S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4754	04	N KONA		19 39	156 01	30					FAA
KONA VILLAGE 93.8	A 4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KOKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KOKAIAHOLE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KOKAIAHOLE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 76	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LA AMILI FLD 3 131.1	5260	01	S KOHALA		20 01	155 41	2615	3P	3P		CG	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKALALA 103	A 5761	02	HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MAUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KFA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUHILO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 31	154 58	600		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683					GEORGE SALAZAR
PAPAIKOU 144.1	7711	02	S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	A 7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	A 8063	02	HAMAKUA		19 45	155 32	6511					STATE DIV OF PARKS
PUNAHOUA HETA 108.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HETAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-O-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			U S DEPT OF INTERIOR
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520					PUU WAAWAA RANCH CO

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HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRES	WIND	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	7P			U S COAST GUARD
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			SHINICHI YANEIRO
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			BOISE CASCADES WA CONST
CLOSED STATIONS ISLAND OF HAWAII												
KAHIAWAI MAUKA 3.8	2512	03	KA'U		19 08	155 46	4120					CLOSED 07/28/80
NEW STATIONS ISLAND OF KAUAI												
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9	8A	8A			KEKAHA SUGAR CO LTD
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250		8A			KEKAHA SUGAR CO LTD
ISLAND OF HAWAII												
HAW'N OC VW EST 3.9	1385	02	KA'U		19 07	155 47	2900					RUSSEL P SMITH
PAHOA 65	7457	02	PUNA		19 31	154 58	2000		8A			PUNA SUGAR COMPANY

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STATION INDEX

HAWAII AND PACIFIC
SEPTEMBER 1980

STATION	INDEX NO	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFANDU	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATUTU	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY GANE ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139				C	MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12°N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CAPITOL HILL	4075	03	SAIPAN		15 13N	145 45E	672				C	MARINO TORWAL/G SABLAN
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
CEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47				C	DEPT NAT RESOURCES
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHUEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30		6P	6P		REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE
NEW STATIONS												
WESTERN PACIFIC ISL, NORTH OF 12°N												
CAPITOL HILL	4075	03	SAIPAN		15 13N	145 45E	672				C	MARINO TORWAL/G SABLAN

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:	Soil Type	Soil Cover	Degree of Slope
Kaialua	: Loose, Coarse	Bare	10° to NW
Kekaha 944	: Clay	Sod	0°
Kii-Kahuku	: Clay	Semi-grassy	0°
Kula Branch Station	: Loam	Pasture Grass	20°
Lanai Fld Office	: Loam	Sod	0°
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1°

LATE REPORTS AND CORRECTIONS will be published annually as a Supplemental bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- } Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

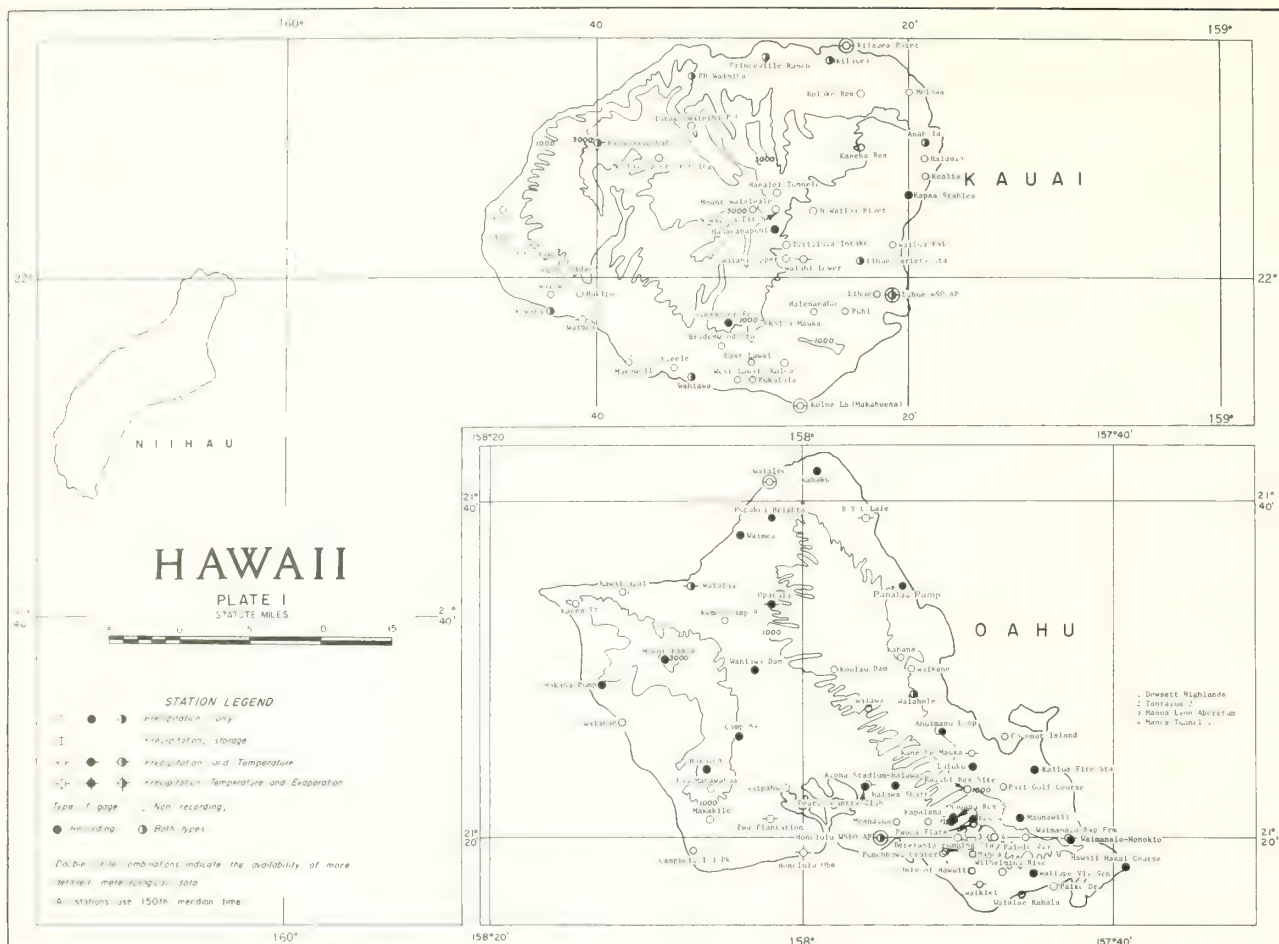
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

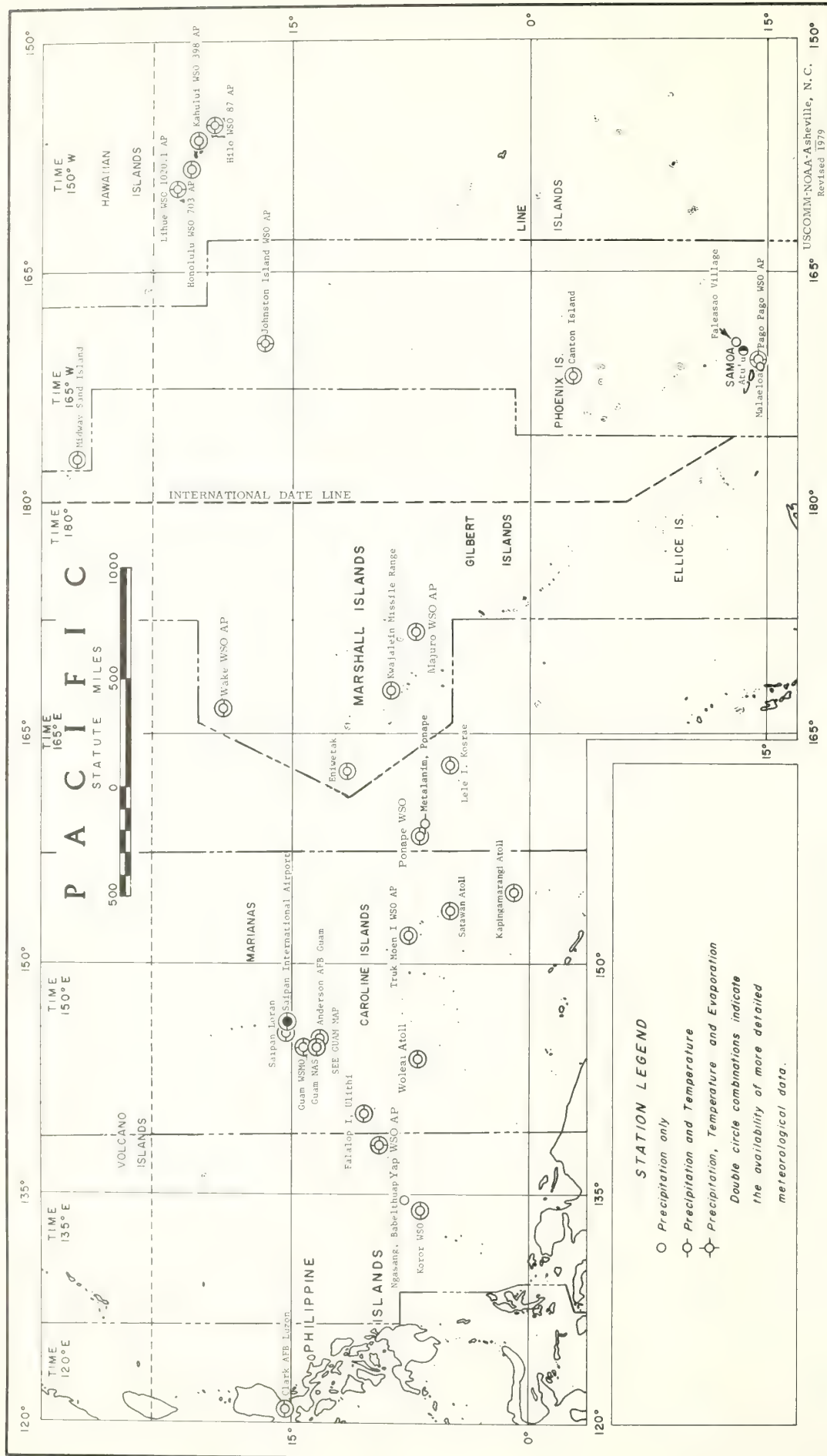
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

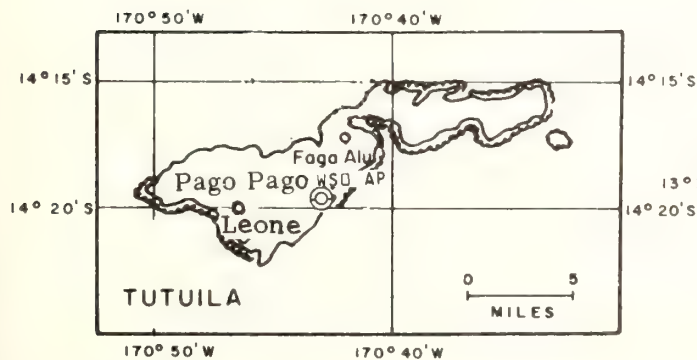
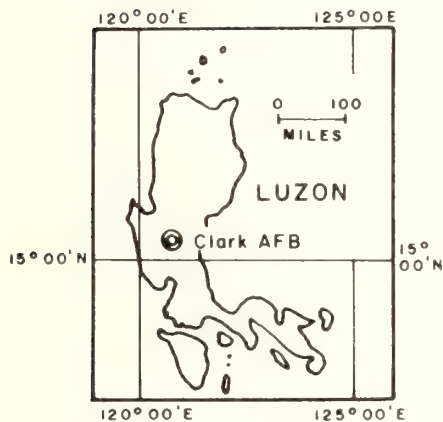
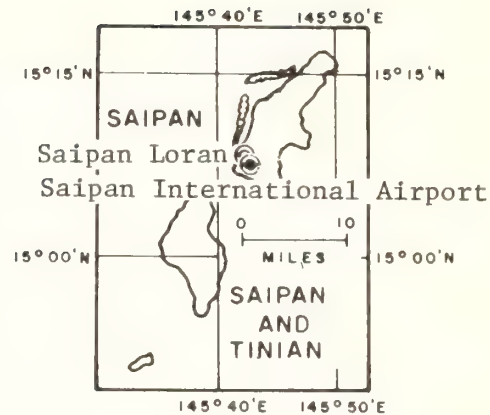
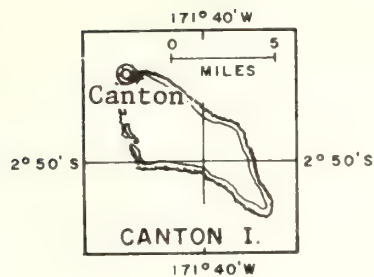
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

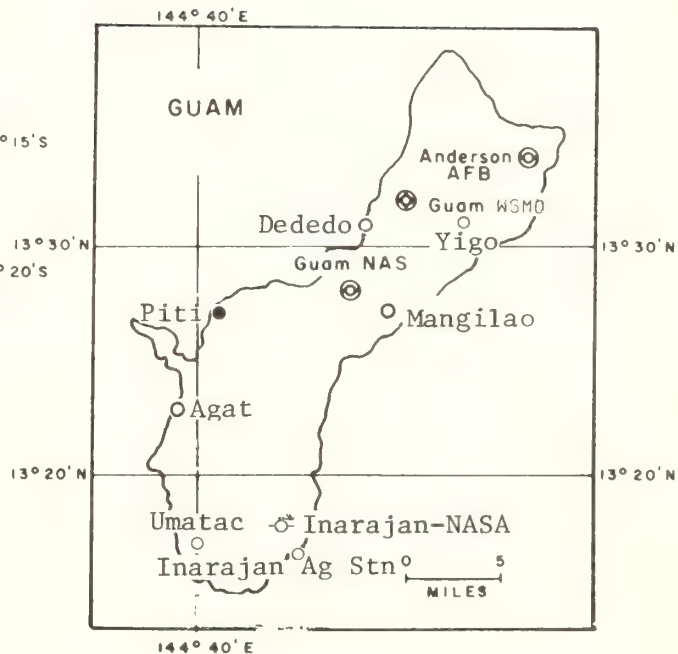
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
 Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
 ATTN: Publications

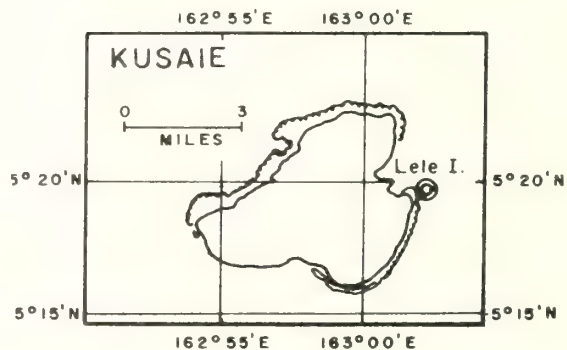
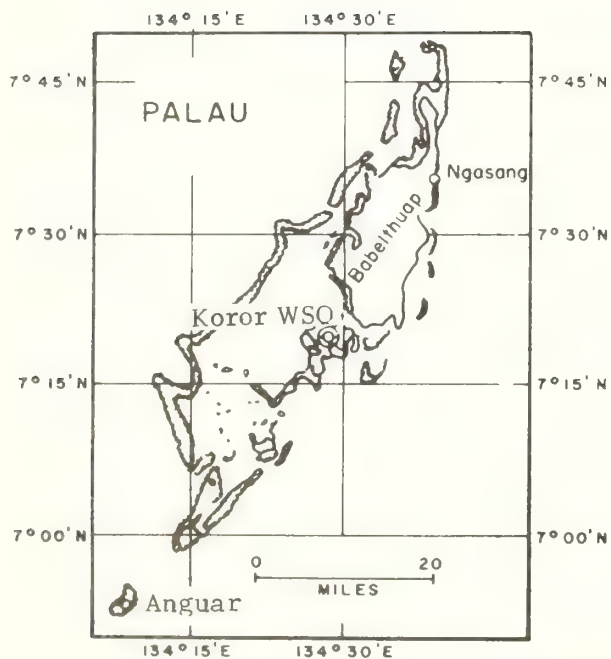
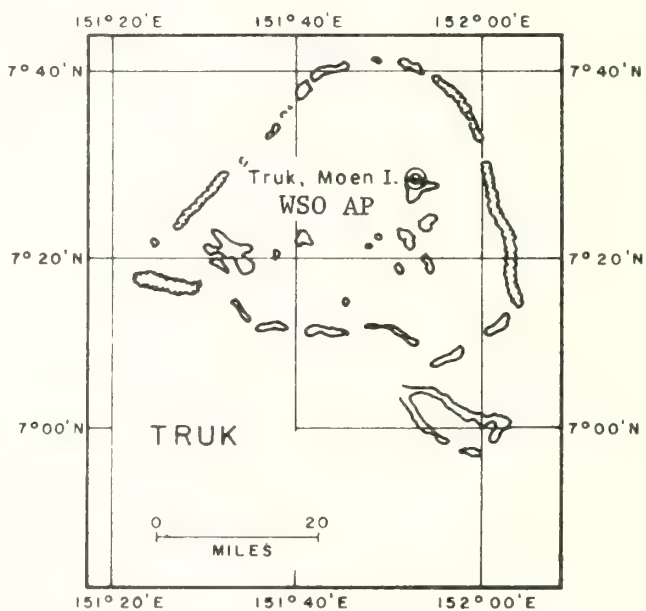
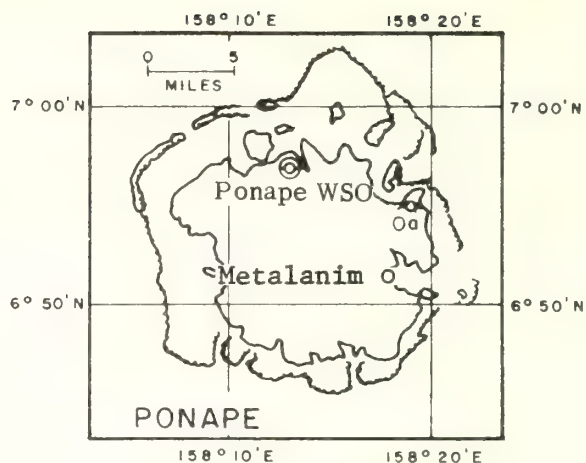
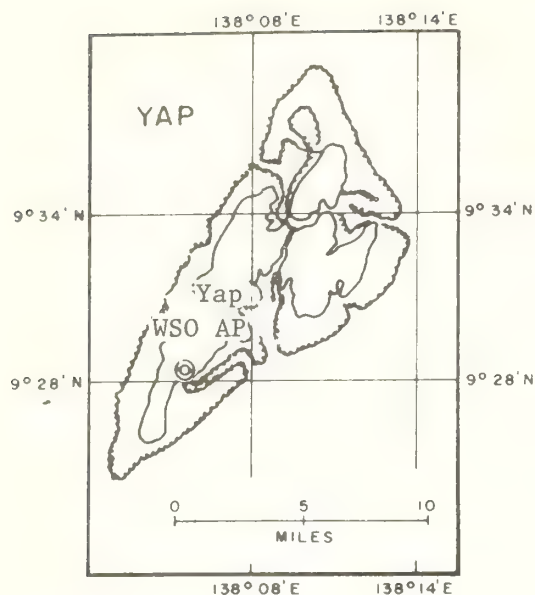




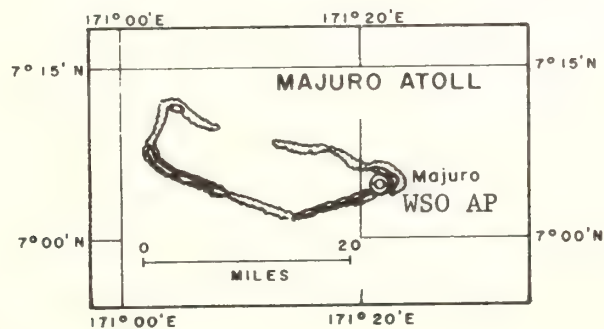
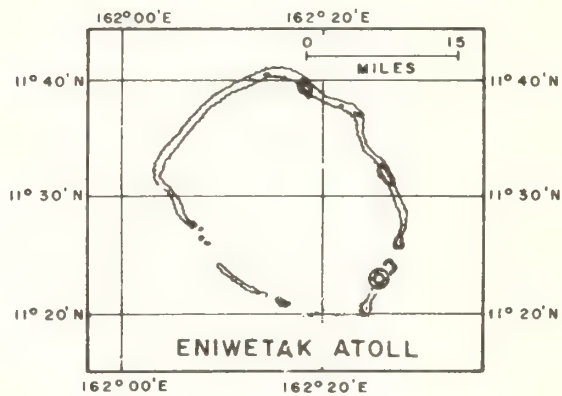
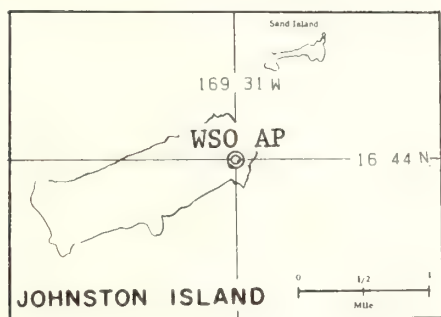
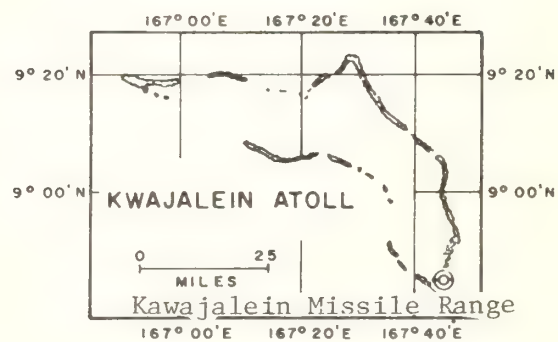
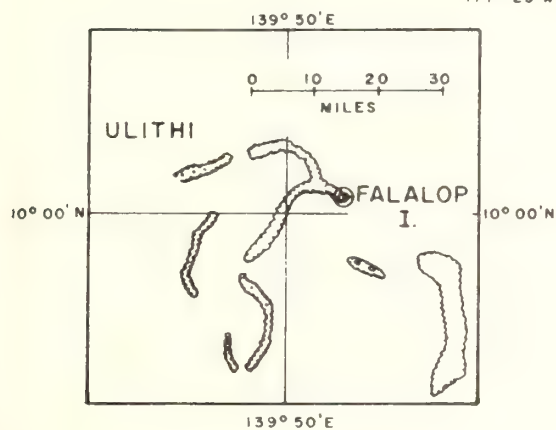
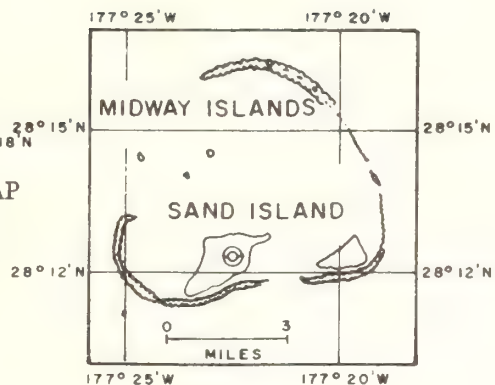
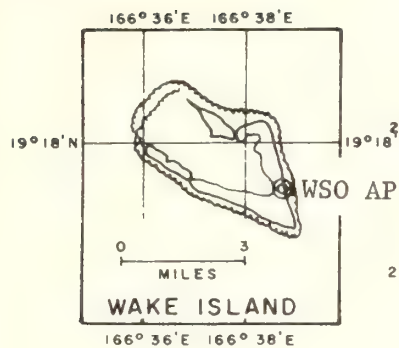


Reef





— Reef



U. S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801.

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF COMMERCE
COM 210



THIRD CLASS
BULK RATE

Climatological Data

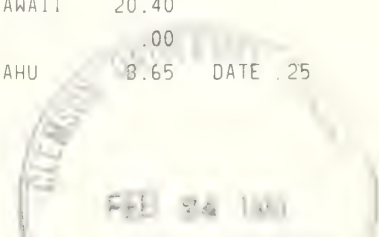
HAWAII AND PACIFIC



TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	ALOHA STADIUM-HALAWA	OAHU	95	DATE	15
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	34	DATE	28+
GREATEST TOTAL PRECIPITATION:	PIIHONUA 89 A	HAWAII	20.40		
LEAST TOTAL PRECIPITATION:	13 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KOOLAU DAM 833	OAHU	8.65	DATE	25



SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES-- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	37	NE	31	-	82	80	93	1	8	12	3	4	0	28	36	8.4	
HILO WSO 87 AP	25	0.8	5.7	15++	12	16+	86	82	70	84	2	9	13	4	1	0	29	48	6.7	
HONOLULU WSO 703 AP	7	10.1	11.7	25++	8	12+	78	71	55	71	8	10	0	0	0	0	18	74	5.2	
JOHNSTON WSO AP	8	14.6	15.2	32++	8	18	85	83	76	83	3	10	8	1	0	0	22	71	5.2	
KAHULUI WSO 398 AP	5	11.8	12.8	32	E	25	-	69	51	66	6	9	1	0	0	0	16	74	4.5	
KOROR WSO	25	2.7	6.8	26	SW	01	88	-	79	77	4	7	8	2	3	3	27	65	8.2	
KWAJALEIN MISSILE RGN	8	6.7	9.7	25++	14	03	82	84	73	79	4	7	6	6	4	0	27	-	8.0	
LIHUE WSO 1020.1 AP	5	10.1	11.6	25++	8	24	82	82	71	78	3	11	10	1	1	0	26	58	5.8	
MAJURO WSO AP	9	4.8	7.0	26	E	31	81	80	73	77	3	8	9	5	1	1	27	74	9.0	
PAGO PAGO WSO AP	10	9.6	11.7	25++	8	22	88	87	81	86	1	7	12	1	2	3	26	25	8.2	
PONAPE WSO	-	-	-	26	SW	29	92		77	79	4	7	9	6	2	1	29	31	8.8	
TRUK,MOEN I, WSO AP	3	1.7	7.8	29	W	30+	88	-	81	80	0	7	9	7	1	3	27	43	9.5	
WAKE ISLAND WSO AP	8	13.1	13.8	25++	12	14	82	84	72	75	0	10	6	4	0	0	20	74	5.4	
YAP WSO AP	8	0.4	6.7	20	E	18	91	-	82	79	3	5	11	0	4	2	25	48	8.6	

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
OCTOBER 1980

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
OCTOBER 1980

STATION	TEMPERATURE														PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
OCTOBER 1980

STATION	TEMPERATURE													PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS				
									MAX. 32° OR ABOVE	MIN. 32° OR BELOW	TOTAL	MAX. DEPTH ON GROUND				DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE				
PACIFIC																							
180°E 170°W MERIDIAN																							
AASUFOU REEF												27.27		4.89	17	.0	0	20	9	6			
FALASAO VILLAGE												16.58		3.96	2	.0	0	16	9	6			
2-HATTIN I W & AF MIDWAY AND ISLAND	R	86.2	77.4	81.8	1.2	89	4	72	31+	528	0	0	0	2.86	.62	.83	11	.0	0	9	1	0	
PAGO PAGO WSO AP	R	84.2	75.2	79.7	3	86	31+	71	28+	465	0	0	0	21.48	9.38	6.36	4	.0	0	18	6	5	
WESTERN PACIFIC ISL. NORTH OF 12°N																							
AGAT												13.42		2.50	1	.0	0	17	10	4			
ANDERSEN AFB GUAM												7.29		2.47	29	.0	0	10	5	2			
CLARK AFB LUZON		82.9	76.7	82.3	1.9	91	10+	73	30+	550	14	0	0	19.74	1.82	6.60	1	.0	0	25	9	7	
GEDDGO GUAM NAS																							
GUAM WSMC	R	85.9	73.6	79.8	9	88	22+	67	12	465	0	0	0	12.02	2.38	1.96	1	.0	0	19	7	4	
INARAJAN AG STN												25.93		7.81	1	.0	0			5			
INARAJAN - NASA		87.6	74.3	80.7		89	13	68	1	497	0	0	0	13.35		2.38	1	.0	0	22	9	4	
MANGILAO												13.61		2.01	7	.0	0	18	9	7			
SAIPAN LORAN																							
UMATAC																							
WAKE ISLAND WSO AP	R	87.7	76.5	82.1	5	90	22+	72	8	540	6	0	0	4.81	.64	.99	14	.0	0	10	4	0	
YLCF												18.65		4.80	1	.0	0						
CAROLINE AND MARSHALL ISLANDS																							
FALALOP I ULITHI ATOLL																							
KAPINGAMARANGI ATOLL																							
KOROR WSO	R	88.4	76.2	82.3	.4	90	31+	73	26+	545	11	0	0	17.11	4.52	4.47	26	.0	0	16	8	6	
KWAJALEIN MISSILE RGN	R	88.0	77.5	82.8	.4	90	1	72	9	560	1	0	0	11.91	.06	1.95	12	.0	0	16	10	4	
LELE I KOSRAE																							
MAJURO WSO AP	R	87.7	76.7	82.2	.9	90	1	73	27	542	1	0	0	9.25	-6.75	2.14	27	.0	0	16	7	2	
METALANIM		87.8	73.7	80.8		90	21+	71	3	496	3	0	0	11.70		2.73	30	.0	0	16	9	3	
PONAPE WSO	R	89.2	73.4	81.3	1.1	92	22+	70	29	515	15	0	0	11.70	4.72	2.27	29	.0	0	18	9	3	
SATAHAN ATOLL																							
TRUK MJEN I WSO AP	R	87.1	73.6	80.4	.7	90	18+	66	29	483	2	0	0	18.91	5.52	4.72	29	.0	0	20	11	4	
WOLEAI ATOLL																							
YAP WSO AP	R	87.4	74.3	80.9	5	90	14	71	31+	498	1	0	0	13.41	.99	3.32	18	.0	0	17	6	6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
OCTOBER 1980

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	3.04				.51		.08	.10	.15				.34	.12		.07	.16			.10	.20			.54				.50		.10	.07	.07	
BYDESWOOD STA 985	A	4.08		.19		.32		.02	.09	.17	.05			.52	.08	.04		.08			.73	.01			.81				.87		.01	.06	.27	.05
EAST LAMAI 934	A	7.27	.43			.85		.06	.22	.28	.14			.91	.53	.09	.01	.04			1.20	.11		.02					.30		.01	.27	.05	
ELEELE 927	A	2.01				.80		.01	.07	.07	.02			.33	.01			.06				.55			.28							.05	.06	
HALAULA 1110	A	3.52				.05		.05	.14	.12				.40	.27		.04	.05			.17	.05			.60				.47		.05		.03	
HALENAHAHO 1006	A	7.49			.04			.15		.35	.31	.05		.50	.40	.05		.29			1.24	.46	.05		.70				.94		.09	.45	.06	
HANALEI TUNNEL 1053	A	10.60	10.60																															
HUKIPO 945	A	18				.09																												
LIILUALU INTAKE 1050	A	15.15		.62	.18			.26		.37	.52	.99	.79		1.63	1.30	.21	.08	.23			1.12	.53	.10	.11	1.49			2.04		.11	.18	.21	.08
INTAKE MAINIHA PC 1086	A	18.96		.03									.30				4.00							2.70				6.66					1.66	
KANALOHUWILU 1075	A	2.84		.03	.02			.05	.20		.03	.05		.18	.60		.07	.06	.08	.05	.11		.05		.40			.56				.28	.02	
KANEHA RESERVOIR 1092	A	5.52						.25		.07	.30	.42	.07		.96	.54		.10	.30		.65	.24	.15		1.48			1.22		.24	.10	.12		
KEALIA 1112	A	3.04						.50		.13	.11				.38	.32			.03		.34	.25							.27		.04	.10	.10	
KEKAHA 944	A	7.13				.21		.35	.38		.05	.40	.30		.11	.25	.05		.11	.54		.52	.07	.14	.04	.28	.32	.29	.05	.03	.14		.11	
KILAUEA 1134	A	7.71				.21																												
KILAUEA POINT 1133	A	4.05	.09	.02			.09	.69	.02	.10	.13	.05			.90	.06	.01		.07	.15		.34	.30	.11	.02	.42			.61		.01	.04	.01	
KOLO 1033	A	6.49	.02				.11		.16	.12	.34	.03			.86	.44	.01		.25			1.02	.19	.10		.48			1.02		.13	.16	.05	
KOLOA MAUKA 994	A	6.50	.05						.42								1.73				1.30								2.00		.22	.17	.01	
KOLOKO RES 1137	A	8.34			.02		.03	.46	.06	.67	.18	.03	.15	.20		.52		.24	.28	.39		.26	.13	.29				6.5	1.23	.13	.02			
KUKULUA 935	A	3.11				.58		.04	.07	.18	.02			.34	.06			.13			.51	.09	.03		.23			.51		.14	.10	.08		
LIHUE VARIETY ST 10621	A	7.69		.82		.25		.02	.20	.18	.04			.60	.38			.10	.15		.55	.42	.08		.70			.86		.15	.10			
LIHUE 1020	A	6.22	.02	.95			.40		.02	.14	.11	.05			.28	.21	.19		.28			.52	.52	.02	.12	.03	.47		.40		.18	.05	.04	
LIHUE WSO AP 1020 1	A	4.42	.37	.60		.05	.11	.02	.16	.06	.1	.23	.01		.16	.01		.40	.09		.01	.04	.21	.02	.34	.37	.07	.03	.11	.02	.1			
MAHAULEPU 941 1	A	4.43				.88		.03	.22	.20	.04			.49	.22	.01		.20			.50	.15	.06		.39			.51		.14	.32	.06		
MAKALEI 965	A	.86				.08		.01										.03			.03						.60							
MANA 1026	A	2.77		.07	.07	.02								.04	.04																			
MONIHI UPR CROSS 1083	A	5.44				.42					.14	.14		.49	.35		.14		.10		.25	.25												
MOLOAA 1145	A	3.49									.82						.35																	
MOUNT WATALEALE 1047	R																																	
NIU RIDGE 1035	A	.09				.09																												
N. WAILUA DITCH 1051	A	16.62		.71	.23			.53	.45	.83	.63			1.81	1.19	.20	.11	.19			1.05	.41	.13	.16	1.78			2.31		.09	.23	.36	.12	
N. WAILUA RIVER 1055	A	5.80		.50							.34	.40						.24	.34	.08														
PH. WAINIHA 1115	A	8.91									.07			.94	.39		.12	.38			.63	.10												
PRINCEVILLE RANCH 1117	A	8.91									.07																							
PUEHU RIDGE 1040	A	7.14	.17			.19			.37	.18	.05		.09		.35	.22	.11				.94	.61	.16		.64			.67		.30	.13	.05		
PUHI 1013	A	2.74				.33		.10	.06	.15	.08				.22	.06	.02		.11		.62	.1	.08		.26			.53		.02	.02	.01		
WAILANI LOWER 1054	A	12.34	.04	.05		.08	.36	.16	.10	.48	.34	.28	.32	.02	.87	.66	.19	.08	.11	.78	.39	.19	.59	.06			.93	.46	.05	.01	.24	.41	.11	
WAILANI UPPER 1052	A	13.10	.01	.56	.08	.06	.21	.34	.34	.57	.74	.31	.50	.79	.21	.80	.14	.04	.17	.44	.61	.27	.34	.10	.08	1.55	.81	.94	.98	.10	.04	.11	.06	
WAILANA 943	A	.08				.08																												
WAILUA KAI 1065	A	5.53	.59			.15		.06	.14	.10		.05		.29	.36		.03	.12			.48	.25	.08		.55			.36		.11	.15			
WAIMEA 947	A	2.3																																
WEST LAMAI 931	A	3.98				.57		.01	.12	.19	.09			.56	.08	.01		.18			.93	.12	.01		.23			.51		.10	.23	.05		
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	A	1.56				.03		.1	.02		.05			.98							.09	.1												
BRETANIA PUMPING STA	A	.96				.10		.02	.12		.03			.01	.25	.10		.32			.11	.1												
B. U. LAIE 903 1	A	1.97						.02	.29	.34	.03			.01	.25	.10		.32			.11	.1												
CAMPBELL IND. PK 702 5	A	1.61	.01	.01				.02	.11	.06				.25				.07			.22													
COCONUT ISLAND 840.1	A	1.61	.01	.01				.02	.11	.06				.25				.07			.22													
FWA PLANTATION 741	A	.46				.31		.03			.01			.06																				
HONOLULU OBSERV 702 2	A	.40				.25		.05	.02		.1	.05																						
HONOLULU WFO AP 703	R	.30				.07		.04	.01		.1	.02	.07					.01																
KAENA POINT 841.3	A	.01																																
KAHANA 883	A	13.69				.142								1.78							4.25													
KALIHI RES SITE 777	R	6.46	.06			.44		.42	.16	.12	.02	.10	.46	.94	.52	.24	.18	.36	.50		.02	.06			.34			1.00			.52			
KANEHE MAUKA 781	A	2.96	.02	.02				.02	.20	.02	.10	.08	.09	.1	.46	.10		.04	.33		.04	.01	.01					1.02	.08	.01		.06	.25	
KAPALAMA 773	A	4.38				.60		.02	.33	.06	.10			.05	.23			.05	.23		.60	.03	.01	.09	.09								.05	.07
KAWAIHAPAI 861	A	2.32	.06			.92		.04	.01	.02				.40	.1			.07	.02															
KEMO CAMP 8 855	A	2.32	.06			.92		.04	.01	.02				.40	.1																			

HAWAII AND PACIFIC
OCTOBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
OCTOBER 1980

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
PAALUO 221		6.46		10			10			35	60		10	41	73	2	33			10	25	02	02			17				25	23	70	
PAHALA 21	A	2.03	19		35		96			01	03							1		06			40										
PAHOA 65		10.93	06	12	62					15	85	22	33			2	42	61	36	10	1	16			04	29	15			38	07	41	38
PAPAIKOU 144.1		9.07	02		07					13	57	20	32			2	42	41	06	28	1	42			1	25	58			20	10	02	05
PAPAIKOU MAUKA 140.1	A	9.95	48				80									5	60						1	60					1	47			
PIIHONUA 89	A	20.40																														20	40
PUUKOHOLA HEIAU 98.1		00																															
PUU LEHUA 73	A	57																														57	
PUUKOHOLA-O-HONAUNAU		1.77																														11	
S GLENWOOD		12.94	09	83	03		01		55	98	45	29	71	35	1	60	79	33	06	1	28	60	43	10	08	01				21			
SOUTH KONA 2 31		1.60	15		05		16	07		19	27	13																					
UPOLU POINT USCG 159.2		2.52		16	1					02	47	07		04	67		05	06	08		05	07	01									10	
WAIKAE SCD 88.2		13.06	18		55		08			21	97	52		49	61	1	65	1	75	34	29		05	1	45	32					13	05	10
WAIKALOA-BOIS CAS 95.8		03																														20	31

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DAILY PRECIPITATION

HAWAII AND PACIFIC
OCTOBER 1980

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
EAST OF 180TH MERIDIAN																																	
ADAK, AK																																	
ADRIANO		27	27																														
ALASKA T. L. AGE				1	5	9		4	4	11		4	1	0	2	6	4	6	9	16		2	4	0	1	2	0	1					
ANNISTON T. WSC AP	R	16	58		1	96	31	28	1	62	02	04	1		36	25																	
MIDWAY SAND ISLAND		2	86			03						16	45	04		30	83		65		04	79	1	56	22	2	34	13	09	64	1	28	
PAGO PAGO WSO AP	R	21	48	1	85	10	20	6	16	12	23		09	5	65	1	01	01	1	99	04	26	2	10	18	04	16	30	49	68	13	31	
WESTERN PACIFIC																																	
NORTH OF 12 N																																	
AGAT		11	42	2	50	1	77	10				39	45	1	40	85	15		10														
ANDERSEN AFB GUAM		7	29	1	1	31																											
CLARK AFB LUZON		19	74	6	60	1	10	40		60	05	1	78	1	50	1	60	08		20	1	68		67	1	12	30	05		20	02		
JEDEGO																																	
GUAM NAS																																	
GUAM WSO	R	12	02	1	96	97	27		10		1	72	58	1	21	03	18	01		03	27	12	18	1		38	02	31	01		06	06	17
INARAJAN AG STN		25	93	7	81	22	58				60	1	00	3	40		12			90		14	26	17									
INARAJAN - NASA		11	35	2	38	78	28		28	77	20		1	14	1	10	02	63	01	52		40	27	08		15	23	04	15	12	25	05	
MANGILAO		1	61	1	43	1	85	21		82	20	43	2	01	1	63	09																
SAIPAN LORAN																																	
MICRONESIA																																	
MAE																																	
MAE WSO AND WSO AP	R	4	81		84			07		01		04	79	03		22	19	22		85	07		05		99								
YIGO		18	65	4	80		1	41		2	04		18		3	82																	
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL																																	
KAPINGMARANGI ATOLL																																	
KOROR WSO	R	17	11	57	64	38																											
KWAJALEIN MISSILE RGN	R	11	91	34	56	77	1	04	1		16		01		1	87		1	05		01	01	14		13	1	68	21	1	02	05	01	
LELE I KOSRAE																																	
MAJURO WSO AP	R	9	25	22	16	63		15	1	03		01	03	1																			
METALANIM	R	11	70	26	1	62	03		05	50		05	01																				
PONAPE WSO	R	11	70	1	1	41	1		18	1	85	01		53	40	16		11	01	04		04	1	83		02	13	47	69	06			
SATAWAN ATOLL	R	18	91	01		63		62	02					05	1	62		52	07	22		01	08	58		25	17	53	62	11			
TRUK MOEN I WSO AP																																	
MOLEAI ATOLL																																	
YAP WSO AP	R	13	41	2	10	14	14		1	01	07		48				1	04	20														

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DAILY TEMPERATURES

HAWAII AND PACIFIC
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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	75 48	70 48	72 46	75 45	70 48	74 58	75 49	71 49	72 60	70 58	70 58	67 57	73 56	71 54	73 56	73 49	72 57	73 57	74 56	74 53	74 51	68 51	73 52	70 52	65 58	72 54	74 55	72 56	72 57	68 50	70 56	71.7 53.4
KEKAHA 944	MAX MIN	86 67	88 67	86 65	78 67	79 69	82 70	84 67	87 67	88 71	86 69	77 72	82 64	83 62	86 62	85 65	86 65	87 66	86 67	86 67	86 65	85 65	86 64	86 64	86 65	84 67	87 67	84 67	85 65	85 65	86 66	86 63	84.7 66.2
KILAUEA POINT 1133	MAX MIN	89 67	86 71	87 73				89 69	84 72	86 71	85 70	85 72		84 61	84 70	84 64	85 62	85 70				84 69	83 69	84 69	80 70	82 65		84 62	85 70	85 71	83 70	86 70	84.7 68.7
LIHUE WSO AP 1020.1	MAX MIN	85 67	84 70	84 71	84 67	80 68	83 75	84 76	84 74	82 74	85 76	81 73	81 72	82 71	83 73	82 68	83 76	79 74	80 73	81 71	81 75	82 70	81 71	77 70	77 73	78 74	80 75	80 68	80 68	83 73	81 75	81 68	81.5 71.9
WAIKAI LOWER 1054	MAX MIN	80 64	82 62	82 66	82 64	80 62	78 66	82 68	82 68	80 66	78 64	80 68	78 66	78 68	80 68	80 66	80 64	79 64	78 68	80 68	82 68	78 66	80 66	82 64	78 64	78 64	76 68	80 64	80 64	80 64	80 64	80 64	79.7 65.3
WAIKAI 947	MAX MIN	89 70	89 71	90 70	89 71	86 70	86 66	88 68	89 70	88 66	88 66	88 67	87 64	88 65	87 67	89 70	90 69	90 70	87 69	90 70	89 68	90 68	90 70	89 68	88 68	87 67	88 69	87 70	88 69	86 68	86 69	86 65	88.0 68.3
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	89 71	91 68	88 72				86 69	85 71	85 70	88 70	91 69			91 68	95 70	88 73	87 72				89 71	86 71	84 71	84 71	84 70	82 72	87 69	86 68	83 72	85 73	83 71	86.8 70.5
B Y U LAIE 903.1	MAX MIN	85 67	84 67	85 68	84 69	85 69	85 69	85 68	85 66	84 75	84 75	84 71		81 75	81 73	84 70	84 73	86 76	86 74		85 74	84 73	82 73	83 73	84 73	80 74	83 74	82 74	82 65	86 75	83 74	82 71	83.7 71.6
HONOLULU OBSERV 702.2	MAX MIN	88 68	87 66	86 69	88 68	87 69	87 66	90 70	90 72	90 72	89 74	88 73	89 70	87 67	88 71	91 67	87 67	90 70	89 70	89 67	89 68	89 67	88 66	88 69	88 72	87 68	87 67	88 63	87 64	87 66	89 65	87 65	88.3 68.3
HONOLULU WSO AP 703	MAX MIN	88 71	91 69	90 72	87 71	87 67	91 67	90 75	89 76	89 76	86 76	88 74	86 72	87 74	88 74	88 70	88 74	87 74	87 73	87 74	88 70	88 74	87 74	87 73	87 70	85 73	88 73	88 70	87 68	88 73	86 72	87 70	87.8 72.4
KANEHE MAUKA 781	MAX MIN	87 79	86 78	85 77	86 79	85 79	83 79	86 78	85 77	84 78	84 76	83 74		80 76	80 76	84 74	85 75	84 75	83 77		84 77	83 76	83 74	83 75	82 75		80 74	79 76	84 72	83 73	83 73	80 72	83.4 75.8
KII-KAHUKU 911	MAX MIN	86 67	86 67	86 75	85 70	84 69	85 68	87 72	86 73	86 75	84 72	86 71	83 74	82 70	84 72	86 72	85 73	84 74		85 75	84 73	84 73	84 73	83 72	82 71	81 72	84 74	84 70	82 73	84 74	82 73	81 72	84.1 72.0
MANOA LYON ARBORETUM	MAX MIN	90 67	87 68	85 67	87 67	90 65	88 66	87 67	85 67	83 70	80 69	75 70	81 67	80 68	77 68	85 67	87 68	79 68	82 68		79 68	84 68	82 69	85 68	80 68	80 68	75 67	79 69	84 69	85 67	79 69	81 70	82.5 68.2
OPAEULA 870	MAX MIN	90 68	90 67	92 69	86 66	85 69	92 70	92 72	94 70	89 72	94 70	80 70	75 69	84 70	80 70	85 69	85 70	80 79		80 69	80 79	80 68	80 65	82 68	82 68	77 69	81 67	82 65	84 68	81 68	84 69	83 65	84.2 68.8
PUU MANAWAHUA 725.6	MAX MIN	83 64	84 67	82 64	86 65	80 64	84 69	82 68	81 67	79 67	79 66	76 65	76 66	78 66	82 66	82 65	80 66	82 66	81 66		81 65	82 66	80 66	81 65	81 66	76 66	75 67	81 64	79 65	80 64	80 63	80 65	80.5 65.6
WAIKALUA 847	MAX MIN	88 66	90 63	92 66	82 66	84 62	89 65	88 68	89 69	87 72	84 70	84 70		80 69	85 70	90 70	86 66	87 68	86 66		84 66	84 66	87 64	87 64	87 65	78 64	84 65	86 64	86 65	85 66	85 66	85.9 66.0	
WAIKIKI 717.2	MAX MIN	92 69	91 67	92 69	91 68	90 66	89 66	92 68	89 73	88 74	88 78	88 80	88 78	85 73	87 74	89 68	89 70	88 68		87 71	88 72	89 71	89 69	88 68	88 68	87 68	89 71	89 68	89 68	89 68	87 67	88.8 70.2	
WAIMANALO EXP FM 795.1	MAX MIN	86 71	86 67	86 72	85 70	85 69	84 68	85 72	85 74	85 72	85 73	85 72	83 71	81 74	81 72	82 72	84 74	84 72		82 74	83 74	83 74	83 75	83 74	83 71	82 71	81 71	83 70	83 68	83 71	83 73	83 68	83.6 71.7
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	89 67	88 67	89 71	88 68	86 68	87 65	89 72	89 73	88 74	88 72	87 70	86 70	82 72	85 72	88 67	89 72			86 63	88 68	88 70	89 69	84 72	84 72	85 71	88 68	90 66	90 68	88 72	88 69	83 69	87.2 69.6
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	84 65	82 65	82 66	82 62	84 64	82 62	85 68	83 67	83 66	83 68	83 66	83 66	79 60	82 68	82 66	83 66	83 66		82 60	80 64	83 64	79 65	82 65	84 64	81 67	82 62	81 63	81 62	82 63	82 65	79 63	82.1 64.6
LANAI CITY 672	MAX MIN	80 63	80 65	79 64	78 64	81 62	80 63	79 65	77 67	78 65	78 65	76 64	77 64	78 65	78 66	83 65	77 64	78 63		76 61	82 61	78 62	77 62	76 64	77 64	76 64	76 64	77 62	77 61	77 61	75 65	75 64	77.9 63.7
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	67 44	66 42	63 46	66 45	68 45	66 45	66 50	70 51	69 53	60 48	64 47	59 45	58 44	62 43	62 47	64 43	65 42		63 40	64 40	61 42	61 39	66 47	63 44	60 50	64 45	66 45	66 43	67 51	63 46	67 47	64.2 45.6
HANA AIRPORT 355	MAX MIN	85 72	85 71	85 70	86 68	85 68	85 69	86 72	86 72	85 72	85 73	83 76		84 74	82 73	84 71	84 68		83 70	85 71	82 69	84 68	84 69	84 71	84 72	84 72	84 69	83 68	84 69	80 69	80 69	70.7	
KAANAPALI AP 453.1	MAX MIN	89 69	89 67	90 70	90 67	86 66	89 69	88 74	88 74	88 73	87 74	86 73	87 72	82 75	84 74	89 73	89 72	86 76		88 76	87 74	88 74	88 71	86 72	86 74	87 72	87 73	88 70	86 69	85 73	82 72	86.9 71.4	
KAHULUI WSO 398 AP	MAX MIN	91 68	93 68	88 66	86 66	87 67	91 66	92 70	89 78	89 76	87 75	86 72		88 75	89 73	93 69	89 72	89 76		90 65	87 67	91 71	87 67	88 72	90 74	92 74	91 64	88 66	87 65	88 73	87 67	88.8 70.7	
KAILUA 446	MAX MIN	81 73	82 66	82 65	82 65	82 66	82 65	82 68	82 68	79 69	75 68	76 66		76 65	77 67	77 68	78 62			72 66	78 65	77 67	79 67	78 66	78 62	77 65	77 65	78 62	79 65	78 65	78 65	78.5 66.0	
KEAWAKAPU BEACH 260.2	MAX MIN	89 68	90 68	91 67	89 66	91 66	88 66	91 70	90 71	88 68	90 69	90 70		90 67	91 68	88 69	88 67			89 65	90 66	88 67	88 65	89 67	88 65	89 65	89 65	89 69	88 65	87 68	87 67	87.8 67.8	
KULA BRANCH STN 324.5	MAX MIN	76 56	76 56	75 57	78 60	79 59	78 57	75 58	76 60	78 58	75 57	76 60		77 57	77 57	75 58	77 56	77 58		73 55	75 56	76 54	75 56	76 56	76 58	77 58	76 55	77 55	77 55	77 56	75 56	76.3 57.3	

DAILY TEMPERATURES

HAWAII AND PACIFIC
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STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
KULA HIKIYATA 28.1	MAX MIN	77 57	76 56	75 57	76 57	77 57	76 56	77 58	76 57	74 56	75 57	75 56	76 56	77 56	77 57	75 56	74 55	75 56	75 54	74 54	75 55	74 57	72 55	72 56	75 53	74 55	75 54	75 56	73 54	74 54	75 55	73 54	75.0 55.7
LAHAINA 163	MAX MIN	90 71	91 70	89 70	84 64	94 64	94 68	91 71	92 72	92 72	87 73	88 67	87 69	90 66	91 69	89 67	91 67	84 69	84 65	90 63	89 66	88 67	89 65	91 65	85 67	84 64	90 66	89 66	90 65	90 66	89 68	89 67	89.1 67.4
ISLAND OF HAWAII																																	
HAWAII VOLCONS NP HQ 54	MAX MIN	76 53	76 51	68 52	77 56	80 54	78 56	77 56	75 60	68 56	71 56	70 57	67 57	66 53	72 52	73 57	74 54	73 58	73 46	72 56	71 53	74 54	73 51	73 55	71 52	70 50	72 51	73 51	74 54	75 56	71 52	73 55	72.8 54.0
HILO WSO AP 87	MAX MIN	85 66	78 67	84 65	84 68	84 68	85 66	86 67	81 70	82 69	80 68	82 69	82 69	83 67	83 67	84 68	83 68	82 69	81 63	83 69	82 68	83 69	82 64	83 68	84 62	83 66	83 64	82 66	82 65	83 70	83 65	82 65	82.7 66.9
KAINALOU 73 2	MAX MIN	83 63	81 65	82 65	82 67	82 67	83 65	83 64	83 64	79 64	81 67	80 66	78 66	81 65	83 62	81 64	79 65	81 65	83 62	84 63	81 62	81 62	81 63	80 64	81 64	76 64	78 61	79 64	81 62	80 62	81 64	79 63	80.9 64.0
KAPOHO BEACH 43 11	MAX MIN	90 68	89 70	88 69	90 72	89 71	89 71	90 71	88 72	86 74	85 71	83 73	85 69	82 70	87 71	89 69	87 70	85 71	84 67	80 68	86 69	84 69	87 68	84 68	85 73	86 72	85 69	85 69	87 69	87 68	85 70	84 69	86.2 70.0
KEMAHOLE PT 68 14	MAX MIN	87 73	90 73	90 72	90 72	91 71	90 73	88 74	89 72	89 72	90 76	87 74	89 80	93 72	90 70	93 73	90 70	90 73	90 72	89 71	94 72	89 74	90 72	90 72	89 72	87 81	87 71	88 80	92 70	90 71	89 71	85 72	89.5 73.0
KILAUEA CAMP 79	MAX MIN	68 48	72 45	68 50	72 51	72 51	70 65	65 51	62 51	66 65	65 52	64 54	59 51	65 48	67 50	66 49	65 55	67 42	66 54	62 47	66 48	65 44	72 50	65 48	65 51	65 43	65 41	66 42	68 59	66 48	66 50	69 50	66.6 49.7
KALAMULO FLD 0 191 1	MAX MIN	84 54	89 53	84 59	84 58	85 56	85 52	85 59	80 65	76 65	75 65	76 64	78 65	75 64	78 65	79 65	87 71	79 72	79 71	77 71	79 71	75 71	77 56	76 57	82 57	78 57	78 52	81 50	78 61	78 62	76 62	76 62	79.6 61.6
MAUNA KEA OBS 111.2	MAX MIN																																
MAUNA LOA SLOPE OBS	MAX MIN	56 37	53 35	54 34	53 36	54 36	54 35	58 40	62 42	60 45	60 40	61 41	57 36	59 38	57 39	57 38	59 39	57 37	55 36	53 35	52 35	54 35	55 36	57 38	62 39	59 41	54 38	53 37	54 34	54 35	53 37	54 41	56.1 37.6
MOUNTAIN VIEW 91	MAX MIN	84 65	83 62	73 61	81 63	85 64	85 60	80 61	84 61	74 64	76 64	77 64	76 65	77 63	78 62	80 64	80 64	79 65	78 60	79 61	78 62	78 61	80 62	76 62	79 59	79 59	76 59	79 58	78 59	80 60	79 62	78 61	79.0 61.6
NAALEHU 14	MAX MIN	82 67	84 67	80 66	83 59	86 68	84 65	82 68	82 70	76 67	82 69	85 70	83 70	83 68	82 68	82 68	83 67	83 67	84 67	83 68	83 68	82 67	82 68	82 68	85 65	85 65	84 71	83 66	84 65	81 63	85 66	82.8 67.2	
ODKA 223	MAX MIN	81 70	80 68	80 67	80 69	83 68	81 68	83 70	79 70	81 70	79 68	80 68	76 68	79 70	80 68	82 71	80 67	81 68	80 69	80 70	78 70	80 70	80 70	81 70	82 70	82 70	80 70	81 70	82 70	80 69	80 71	81 68	80.4 69.1
OPINIALE 2 24.1	MAX MIN	83 59	79 58	84 58	84 60	84 57	84 60	81 57	85 59	78 61	84 59	82 62	80 61	82 57	82 58	82 59	81 57	83 57	79 57	82 58	83 57	82 59	81 57	80 58	82 60	83 62	83 63	81 60	81 60	80 62	77 61	81 62	81.7 59.6
PUUKOHOLA HEIAU 98.1	MAX MIN	90 61	90 58	90 58	89 59	91 59	92 58	90 66	91 62	90 69	91 67	90 67	92 69	91 69	89 66	80 66	84 58	89 74	91 65	80 65	82 65	89 65	79 63	92 51	89 65	89 63	88 62	88 70	89 70	91 67	88 71	88 70	88.1 66.0
SOUTH KONA 2.31	MAX MIN	81 61	82 58	72 58	79 59	80 59	81 58	73 63	81 62	73 60	78 63	73 61	78 63	76 63	73 62	78 62	78 60	81 64	80 60	79 59	76 59	70 58	75 55	72 56	70 57	78 58	78 59	79 61	79 58	75 55	76 56	75 58	76.7 59.5
UPOLU POINT USCG 159.2	MAX MIN	88 72	87 72	89 72	89 72	87 71	78 70	87 74	82 72	87 73	85 73	87 71	87 69	78 70	84 70	78 70	85 70	85 71	86 71	85 70	86 69	87 69	84 74	84 72	90 74	86 75	85 69	85 71	86 68	85 72	86 73	86 70	85.3 71.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
OCTOBER 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * *																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	88 79	88 79	88 76	89 80	88 78	83 75	85 75	87 75	87 77	86 75	85 72	86 80	87 78	87 79	86 80	86 80	86 74	85 74	86 77	86 78	87 80	87 78	85 79	86 77	85 80	86 76	85 79	86 78	85 80	85 80	85 72	86.2 77.4	
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	81 75	80 75	84 77	82 73	85 75	84 78	85 79	84 75	78 73	85 73	86 75	85 75	85 75	82 77	85 77	85 74	85 78	85 80	86 78	85 76	81 74	85 75	85 78	84 74	86 71	86 71	84 75	85 71	85 72	86 75	86 77	84.2 75.2	
* * *																																		
WESTERN PACIFIC ISL, NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN																																	
CLARK AFB LUZON	MAX MIN	88 75	90 75	90 75	88 77	86 77	90 77	90 79	91 77	91 79	91 79	90 79	90 77	90 75	90 75	90 77	88 79	88 79	90 79	86 77	88 77	88 79	82 77	88 75	84 77	88 77	88 77	90 77	82 75	77 73	84 73	88 75	87.9 76.7	
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	82 72	85 74	85 72	85 73	88 69	83 73	84 74	86 73	88 72	87 74	87 73	88 67	86 71	87 75	87 74	86 74	86 74	86 74	87 75	85 75	87 75	88 74	87 70	87 74	87 74	83 76	85 76	86 76	87 74	86 77	82 77	85.9 73.6	
INARAJAN - NASA	MAX MIN	85 68	85 74	86 75	88 73	87 73	86 73	86 73	84 73	86 73	88 73	87 74	88 74	89 75	88 77	88 75	88 75	88 75	88 75	86 75	86 75	87 76	87 76	87 77	88 75	87 74	87 74	87 76	86 74	87 76	88 75	88 72	87.0 74.3	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	90 73	90 80	90 78	90 79	89 78	89 78	89 77	86 72	90 77	88 75	88 74	87 78	88 77	84 73	86 77	88 78	88 76	89 77	87 77	83 74	87 74	90 76	87 76	87 78	87 76	87 77	87 77	87 79	86 75	86 79	88 77	87.7 76.5	
* * *																																		
CAROLINE AND MARSHALL ISLANDS																																		
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	83 74	87 75	88 76	88 78	89 78	88 78	88 78	88 77	88 78	89 77	90 76	89 76	90 77	90 77	90 76	90 77	90 77	90 73	90 77	87 74	89 76	89 77	89 77	82 74	89 74	90 77	82 73	88 77	89 78	90 75	90 78	90 75	88.4 76.2
KWAJALEIN MISSILE RGN	MAX MIN	90 75	88 75	87 76	86 76	87 79	88 78	89 80	89 80	84 72	88 80	89 77	88 74	88 81	89 79	89 79	89 76	88 76	89 78	89 78	89 82	89 77	88 75	88 77	89 76	89 81	87 79	85 76	88 79	88 79	87 75	88 79	88.0 77.5	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	90 76	88 76	87 75	88 77	87 79	88 79	89 80	87 79	88 78	88 78	88 77	88 74	89 76	89 80	89 75	87 75	88 77	89 77	89 77	88 79	88 77	86 74	87 75	87 76	88 76	85 76	86 73	88 77	85 75	88 77	86 77	87.7 76.7	
METALANIM	MAX MIN	90 72	87 73	88 71	88 75	88 73	88 72	86 73	84 73	89 72	88 72	88 74	89 73	89 72	89 73	89 73	88 75	88 75	90 75	83 74	87 75	90 76	89 74	88 74	89 74	89 74	87 75	87 74	86 76	86 75	86 73	88 74	87.8 73.7	
PONAPE WSO	MAX MIN	89 73	87 74	91 72	89 74	89 73	90 72	89 73	86 73	89 72	90 73	89 74	91 72	90 73	90 72	91 73	90 74	92 75	89 76	83 74	89 74	91 75	92 74	91 75	90 73	89 73	91 74	90 75	85 74	85 70	89 74	89 73	89.2 73.4	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	88 73	87 75	85 73	86 71	85 74	90 74	88 74	89 70	87 75	88 74	89 75	88 74	88 74	89 75	88 73	88 76	89 77	90 75	86 73	85 74	89 74	87 75	88 73	84 73	86 74	87 74	88 77	83 73	83 66	87 70	84 73	87.1 73.6	
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	81 73	88 75	87 77	88 77	88 76	88 75	87 74	88 76	88 77	87 73	88 74	88 74	88 75	90 73	87 75	88 76	88 75	86 72	88 74	86 75	88 75	86 75	87 72	87 74	87 75	87 71	88 73	88 75	88 72	88 73	87 71	87.4 74.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
OCTOBER 1980

STATION	DEPTH (IN)	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEKAWA 403	4	MAX MIN	92 74	92 80	90 79	91 77	91 81	89 81	90 79	91 81	91 79	90 80	89 79	93 78	86 76	86 75	88 79	89 78	89 79	92 78	87 78	89 78	87 77	89 78	88 77	86 79	85 78	85 78	86 78	86 77	86 77	85 77	85 76	88.5 78.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
OCTOBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KII-KAHUKU 911	(1N)	4 MAX MIN	87 78	86 78	85 78	87 78	83 78	85 77	82 80	83 79	81 77	80 77	80 76	78 76	78 75	81 75	82 76	80 76	81 77	80 76	81 75	81 76	82 77	82 76	81 77	79 76	76 72	79 74	79 75	79 75	79 76	79 75	79 74	81.1 76.3
MANOA LYON ARBORETUM	(1N)	4 MAX MIN	82 77	82 77	82 78	82 77	81 77	79 76	81 75	80 77	79 77	77 75	76 75	76 74	76 74	76 74	79 73	79 75	77 75	78 75	76 74	78 74	78 75	79 75	77 75	76 74	75 73	77 74	78 74	79 75	76 74	75 74	77 73	78.2 75.0
WAIALUA 847	(1N)	4 MAX MIN	99 76	98 75	98 75	-	-	-	89 73	89 75	90 76	87 75	-	-	-	85 73	91 73	87 73	88 73	-	-	-	86 72	87 72	89 71	89 72	-	-	-	84 69	84 69	85 70	83 70	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
OCTOBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KILA BRANCH STN 324.5	4	MAX	74	71	70	-	-	74	71	73	75	75	-	-	-	74	73	71	73	-	-	73	70	69	71	71	-	-	71	69	71	72	71	71.9 68.5
		MIN	69	67	67	-	-	68	69	71	71	70	-	-	-	69	70	69	70	-	-	69	68	67	68	68	-	-	67	67	67	69	68	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
OCTOBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAINALIU 73.2	(1N)	4 MAX																																
		MIN	80	79	81	80	-	81	81	83	79	78	-	-	-	85	79	78	79	-	-	82	79	77	79	78	-	-	78	79	79	77	75	79.4
			76	76	75	75		75	76	76	76	76	-	-	-	76	75	75	74	-	-	76	76	74	73	74	-	-	73	75	75	74	74	75.0
LALAMILO FLD 0 191.1	(1N)	4 MAX																																
		MIN	77	79	79	-	-	78	78	76	75	75	-	-	-	76	76	76	75	-	-	75	76	78	76	73	-	-	74	73	74	74	74	75.8
			72	72	71	-	-	72	72	73	71	70	-	-	-	71	69	69	71	-	-	70	70	70	71	69	-	-	68	70	70	68	69	70.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
OCTOBER 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF MAUI																																	
LIHOE WSD AP 1023 1	EVAP	.22	.22	.36	.25	.20	.09	.23	.22	.28	.25	.31	.19	.16	.29	.17	.32	.17	.22	.33	.23	.10	.36	.29	.13	.08	.28	.18	.23	.16	.37	.30	7.19
	WIND	80	82	85	84	82	126	109	155	191	251	251	267	207	189	106	122	147	186	183	144	107	86	153	193	271	192	121	93	129	205	181	4778
	MAX	89	87	87	88	85	85	86	85	85	84	82	79	80	82	83	87	84	81	82	82	83	85	-	84	79	83	90	89	87	87	88	84.6
	MIN	62	67	65	68	63	65	63	68	69	65	66	65	64	65	68	64	65	65	65	66	64	61	-	70	68	72	68	66	73	67	67	66.1
ISLAND OF OAHU																																	
HONOLULU OBSERV 702 2	EVAP	.30	.45	.30	.41	.34	.19	.32	.26	.30	.30	.40	.40	.35	.39	.45	.35	.45	.45	.41	.30	.30	.30	.45	.17	.30	.30	.30	.30	.26	.24	.30	10.34
	WIND	19	20	29	22	21	16	19	19	20	39	45	42	34	29	17	19	22	27	25	19	19	14	24	28	34	23	19	19	18	17	25	743
	MAX	95	94	93	96	95	90	93	95	93	89	87	91	91	91	94	95	92	92	91	89	90	89	91	89	88	88	86	89	88	88	89	91.0
	MIN	68	66	67	69	70	66	68	71	69	69	68	66	67	67	65	68	69	61	66	66	65	65	65	65	65	67	66	63	62	66	63	66.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
OCTOBER 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
*** EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.24	.37	.33	.31	.30	.19	.11	.28	.36	.34	.71	.37	.34	.33	.28	.34	.34	.39	.33	.37	.22	.40	.26	.24	.39	.32	.28	.38	.43	.31	.30	10.16	
	WIND	118	101	94	140	134	112	123	115	158	199	270	202	135	138	167	184	161	200	178	180	181	178	196	202	215	160	197	191	225	202	175	5231	
PAGO PAGO WSO AP	EVAP	-	-	-	-	-	.27	.33	-	-	.22	.22	.24	.28	.14	.23	-	.07	.20	.35	.26	.00	.19	.21	.13	.16	.20	.11	.28	.21	-	.29		
	WIND	142	190	261	210	134	164	232	157	36	59	95	114	32	88	191	104	147	186	228	208	108	130	182	61	26	36	30	43	42	87	119	3842	
	MAX	83	82	87	84	88	89	89	88	-	95	94	97	93	92	92	-	87	87	83	83	82	84	83	85	85	85	85	83	85	89	88	87.1	
	MIN	72	70	71	69	70	71	73	75	70	72	73	74	70	75	77	-	73	76	75	75	72	75	74	72	73	75	72	74	74	76	73.1		
*** WESTERN PACIFIC ISL, NORTH OF 12 N																																		
GUAM WSMO	EVAP	-	.21	.13	.25	-	.16	.06	.23	.29	.21	.16	.21	.19	.33	.28	.26	.12	.25	.23	.04	.25	.31	.27	.07	.30	.01	.27	.17	.15	.14	.04	5.988	
	WIND	101	82	32	25	32	20	57	43	32	30	28	19	34	66	124	95	125	111	141	85	69	50	43	53	59	90	125	90	37	58	261	2217	
	MAX	82	84	86	87	94	84	80	86	93	93	92	95	91	90	90	87	85	87	89	85	90	91	91	90	89	82	82	91	91	86	81	87.9	
	MIN	76	75	73	72	69	71	70	70	70	72	71	70	70	72	71	70	72	73	73	72	72	71	70	71	71	72	73	70	70	72	74	75	71.7
*** CAROLINE AND MARSHALL ISLANDS																																		
YAP WSO AP	EVAP	-	.22	.17	.15	.23	.15	-	.31	.17	.26	.31	.16	.22	.23	.13	.15	.15	.14	.04	.24	.07	.06	.09	.08	.09	.20	.23	.18	.21	.23	.25	6.548	
	WIND	120	107	80	91	45	37	48	42	27	30	29	31	37	38	47	56	40	27	58	36	24	18	28	33	44	74	92	42	34	48	73	1536	
	MAX	75	89	90	89	95	94	85	93	95	95	89	95	98	92	92	93	92	84	91	91	90	86	95	87	87	92	92	96	94	93	87	90.8	
	MIN	71	71	72	73	74	75	73	72	74	74	75	73	74	74	74	73	73	74	71	70	70	73	73	71	72	73	73	72	74	73	72	72.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610					MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIHAU		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIHAU		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAHO 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALET TUNNEL 1053	A 1170	01	KAWAIHAU		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALET		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA		22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIHAU		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIHAU		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIMEA		21 58	159 43	9	8A	8A		CG	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALET		22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALET		22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033	4735	03	WAIMEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIHAU		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A 5864	03	WAIMEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIMEA		22 02	159 44	1250		6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALET		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALET		22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA		22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIAWA 943	9253	03	WAIMEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947	9629	03	WAIMEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULO		21 31	157 54	800		WI			WAILUAHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULO		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					KAILUA FIRE STATION BOARD OF WTR SUPPLY HAWAII STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC JEFF WALLACE US ARMY SCHOFIELD BRKS HON BOTANIC GARDENS CAPITAL INVESTMENT CO
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910					
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	MID			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A		G	
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	280				C	
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400				C	
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS CHARLES COOKE LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		G	
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395				C	
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025				C	
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A			C	
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER ROBERT E WHITE
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120				C	
PUNALUU PUMP 905.2	8314	01	KOOLAULOA		21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750				C	
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1330		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854				C	
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		G	
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	50		7A			
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180				C	
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120				C	
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330				C	
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN)
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140				C	
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825				C	
MAUNALO A 511	A 6190	01	MOLOKAI		21 08	157 13	1070				C	
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700				C	
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C	
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO U H MAUI AGRI EXP STN HALEAKALA RANCH CO HALEAKALA NAT PARK MAUI LAND-PINEAPPLE CO HAWAIIAN COM & SUG CO ROYAL HAWAIIAN AIRLINES HALEAKALA NATL PARK RGS
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		VAR			
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			
HAMAKUAPU 465	1086	01	MAKAWAO		20 55	156 21	320		5A			
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	
HOLUA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			
HONOCHANG 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO HALEAKALA RANCH CO AMFAC PROPERTIES INC EDWARD CHANG PIONEER MILL CO LTD NATL WEATHER SERVICE E MAUI IRR CO LTD E MAUI IRR CO LTD
HONOHONGA 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			
KAUUA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD KAUPO RANCH CO HAWAIIAN COM & SUG CO E MAUI IRR CO LTD ALLEN L CORELL HAWAIIAN COM & SUG CO HANA RANCH-KIPAHULU SEC MAUI LAND-PINEAPPLE CO U H MAUI AG RESEARCH C KULA HOSPITAL 267
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2	A 4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD PIONEER MILL CO LTD PIONEER MILL CO LTD E MAUI IRR CO LTD PIONEER MILL CO LTD MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO E MAUI IRR CO LTD PIONEER MILL CO LTD E MAUI IRR CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA		20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			
OWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO KAUPO RANCH CO BERNARD RUPLINGER WAILUKU SUGAR CO STATE DIV OF FORESTRY E MAUI IRR CO LTD HAWAIIAN COM & SUG CO E MAUI IRR CO LTD HAWAIIAN COM & SUG CO KAONOULU RANCH
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO PIONEER MILL CO LTD ULUPALAKUA RCH CO LTD PIONEER MILL CO LTD WAILUKU SUGAR CO WAILUKU SUGAR CO E MAUI IRR CO LTD E MAUI IRR CO LTD WAILUKU SUGAR CO E MAUI IRR CO LTD
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			
WAIIEHU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY HALEAKALA RANCH CO
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH MAUNA KEA SUGAR CO DAVIES HAMAKUA SUGAR CO
AMAUULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			

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ISLAND OF HAWAII												
HAKALAU 142		0905	02 S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03 KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02 HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	A	1303	02 KA'U		19 26	155 16	3871	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01 N KOHALA		20 14	155 50	580		6A			K L BOND
HAW'N OC VW EST 3.9		1385	02 KA'U		19 07	155 47	2900					RUSSEL P SMITH
HILO COUNTRY CLUB 86.6		1487	02 HAWAII		19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R	1492	02 S HILO		19 43	155 04	36	MID	MID		J	NATL WEATHER SERVICE
HONAUNAU 27		1665	04 S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02 N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138		1960	02 S HILO		19 51	155 09	1100					MAUNA KEA SUGAR CO
HUEHUE 92.1	A	2156	04 N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALO 29	A	2327	04 SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHUA RCH HQTRS 176.3		2600	01 HAWAII		20 08	155 48	3240					KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15		2686	04 KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2		2751	04 N KONA		19 32	155 56	1500	7A	7A		G	UH HI AGRI EXP STN
KALAOA 69.22		2887	04 HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02 S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A	3048	03 KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAPAPALA RANCH 36	A	3300	03 KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11		3368	02 HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02 PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01 HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92		3872	02 PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT 68.13		3910	04 N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIIWA CAMP 22.1		3925	03 KA'U		19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11		3985	04 S KONA		19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2		4098	02 HAMAKUA		19 55	155 21	5280					U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A	4625	03 KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1		4680	01 N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A	4685	01 HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04 N KONA		19 39	156 01	30				C	FAA
KONA VILLAGE 93.8		4765	04 N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01 HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199		4928	01 HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01 HAMAKUA		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79		5011	02 S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05 N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A	5021	02 S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD 0 191.1		5260	01 S KOHALA		20 01	155 41	2615	3P	3P		CG	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04 N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKALALAU 103	A	5761	02 HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A	6134	03 KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02 HAWAII		19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05 HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A	6270	01 N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03 KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91		6552	02 PUNA		19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A	6588	03 KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPPOPOO 28	A	6697	04 S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223		7131	02 N HILO		20 01	155 17	430	6A	6A		C	DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1		7166	04 S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A	7185	02 PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217		7204	01 HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUILO 221		7312	01 HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A	7421	03 KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65		7457	02 PUNA		19 31	154 58	600		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64		7465	02 PUNA		19 30	154 57	683				C	GEORGE SALAZAR
PAPAIIKOU 144.1		7711	02 S HILO		19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	A	7721	02 S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02 S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULO 107	A	8063	02 HAMAKUA		19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04 N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-0-HONAUNAU		8552	04 S KONA		19 25	155 55	15		8A			U S DEPT OF INTERIOR
PUU WAAWAA 94.1		8555	05 N KONA		19 47	155 51	2520				C	PUU WAAWAA RANCH CO
S GLENWOOD		8638	02 PUNA		19 28	155 08	2130		7A			SUSAN CAREY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
OCTOBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139				C	MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CAPITOL HILL	4075	03	SAIPAN		15 13N	145 45E	672				C	MARINO TORNAL/G SABLAN
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47				C	DEPT NAT RESOURCES
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:

	Soil Type	Soil Cover	Degree of Slope
Kainaliu	: Loose, Coarse	Bare	10% to NW
Kekaha 944	: Clay	Sod	0%
Kii-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Lalamilo Fld Office	: Loam	Sod	0%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be published annually as a Supplemental bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

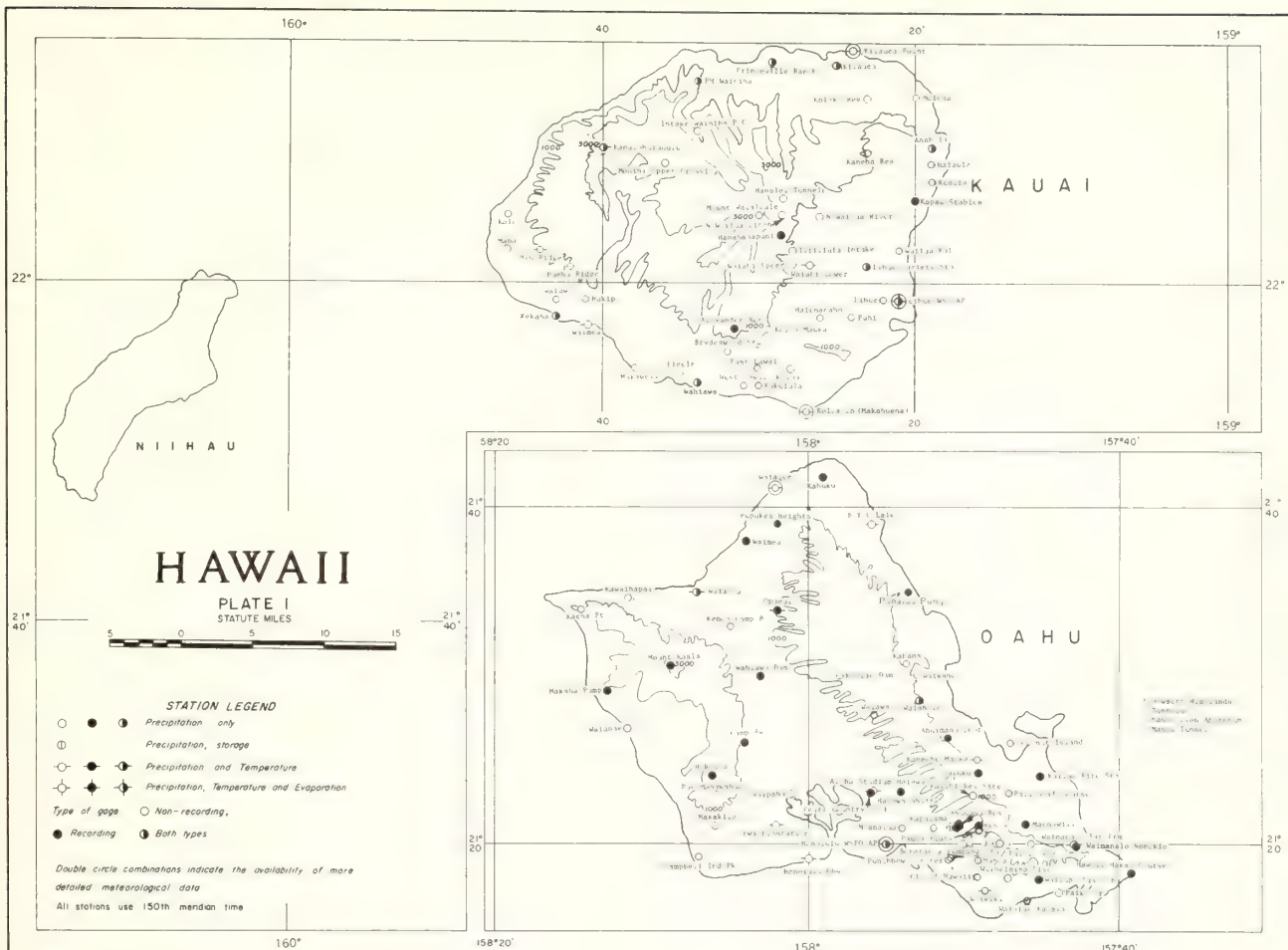
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

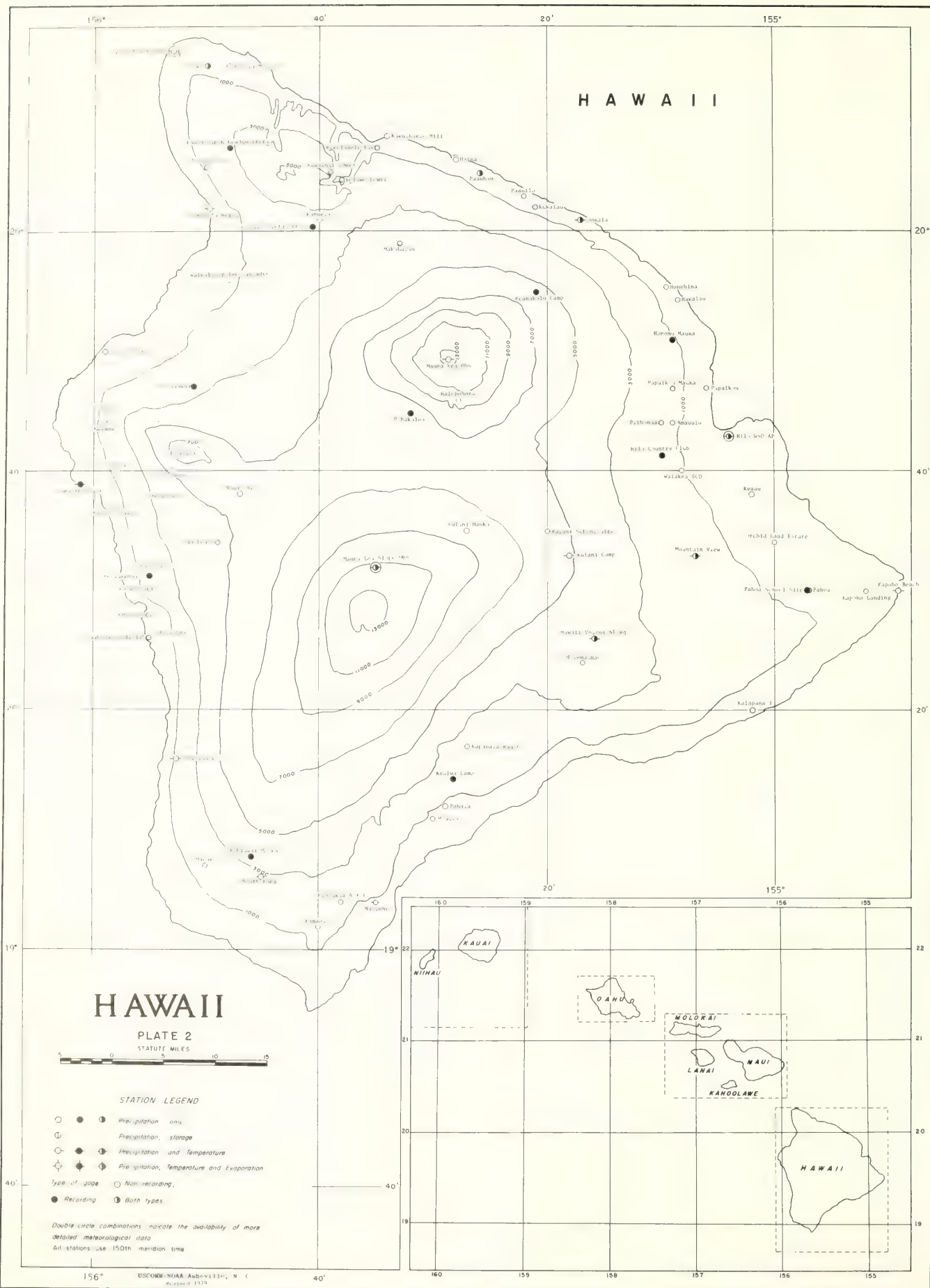
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

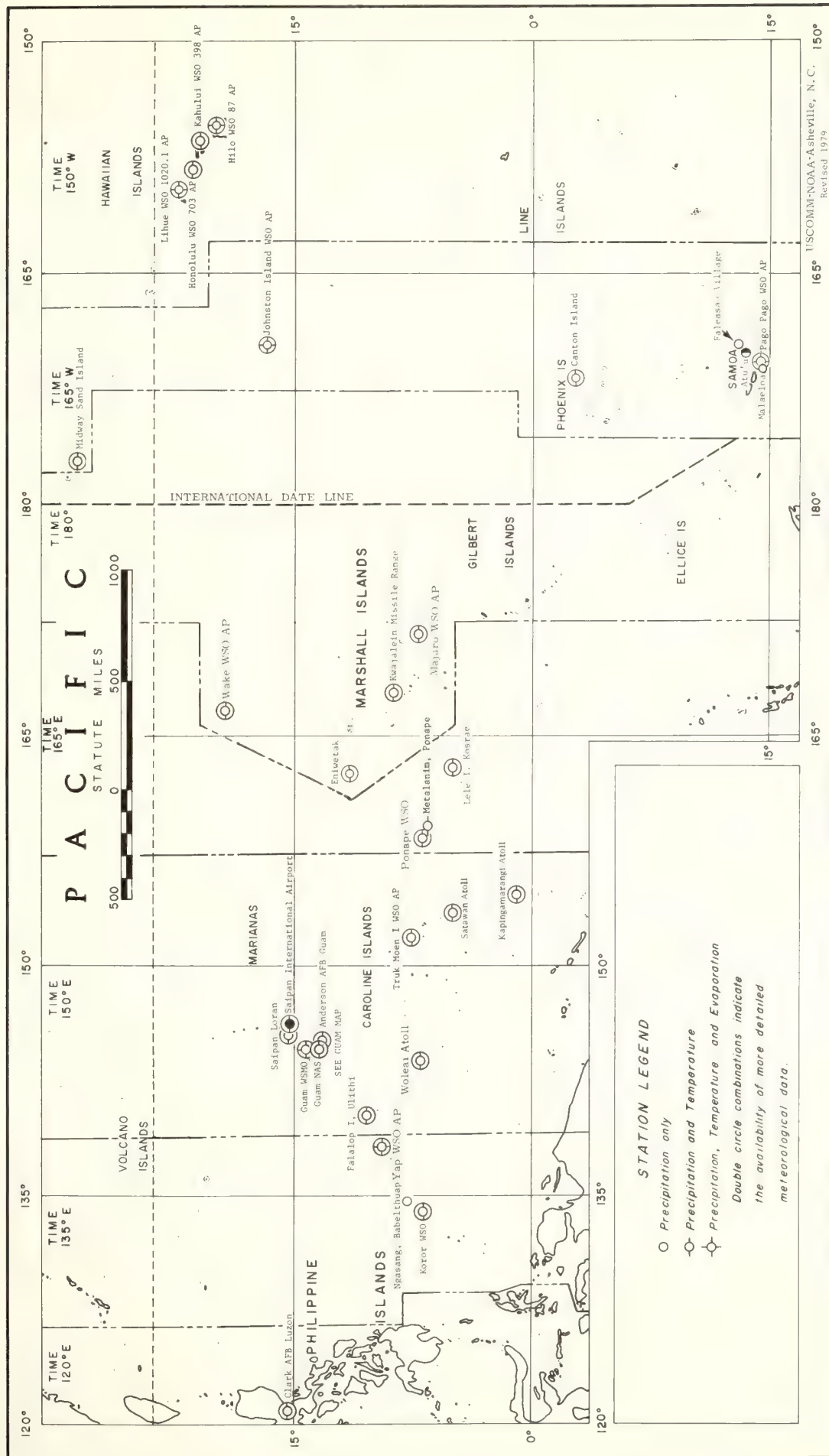
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

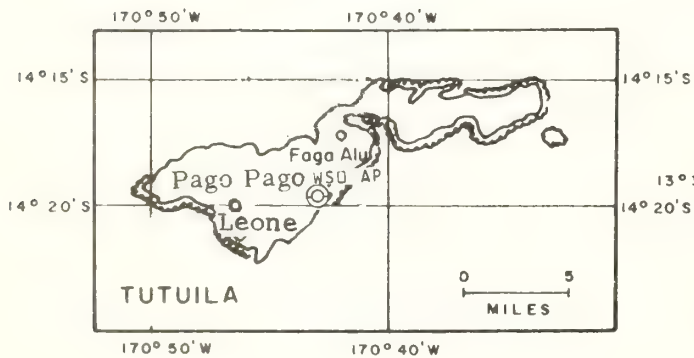
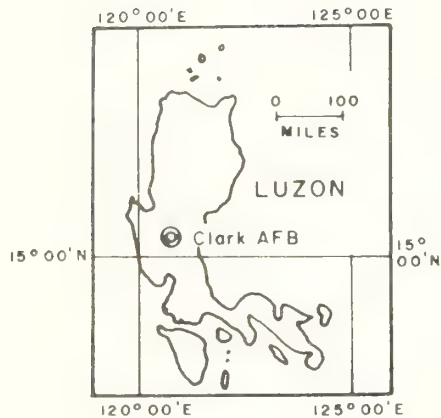
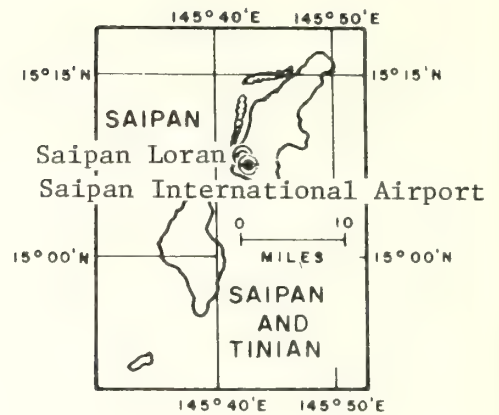
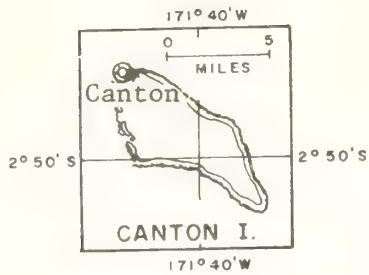
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801.
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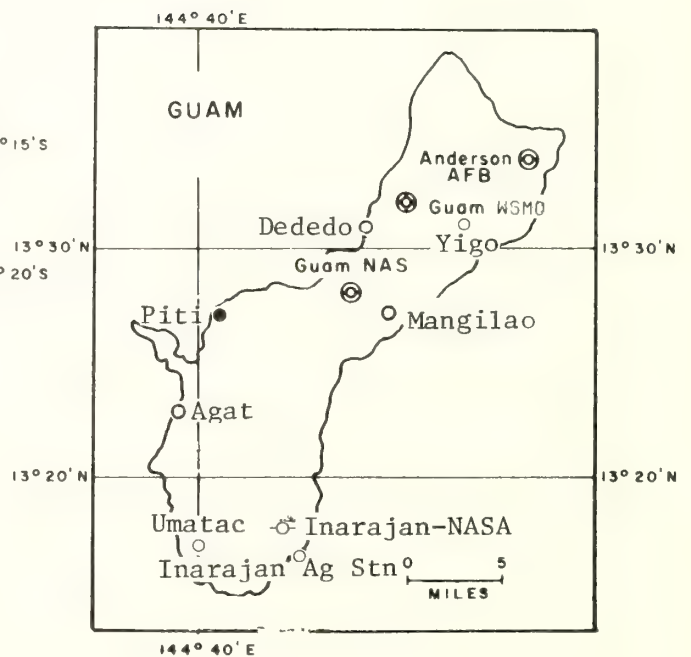


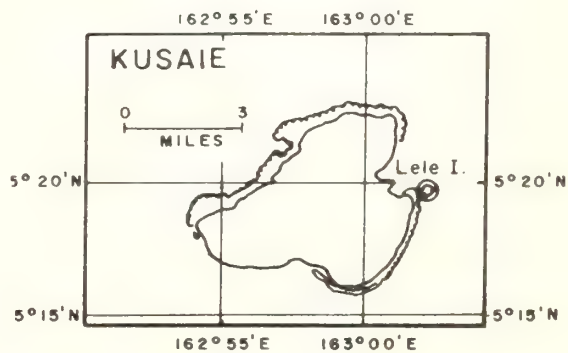
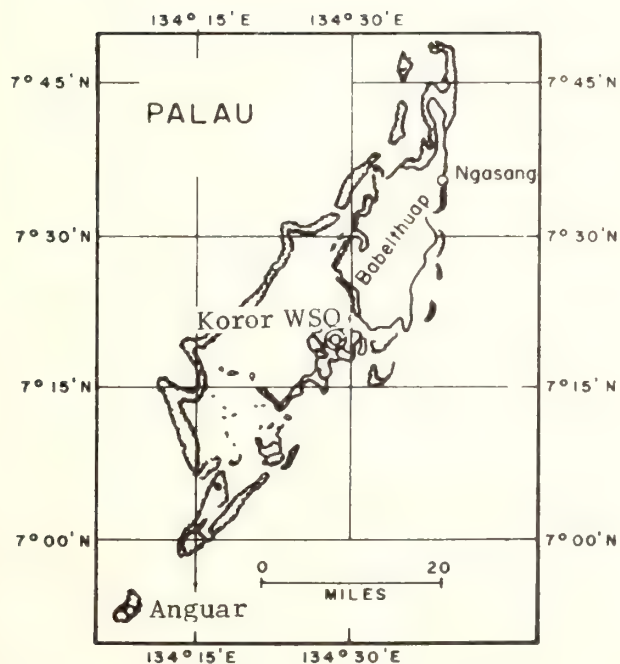
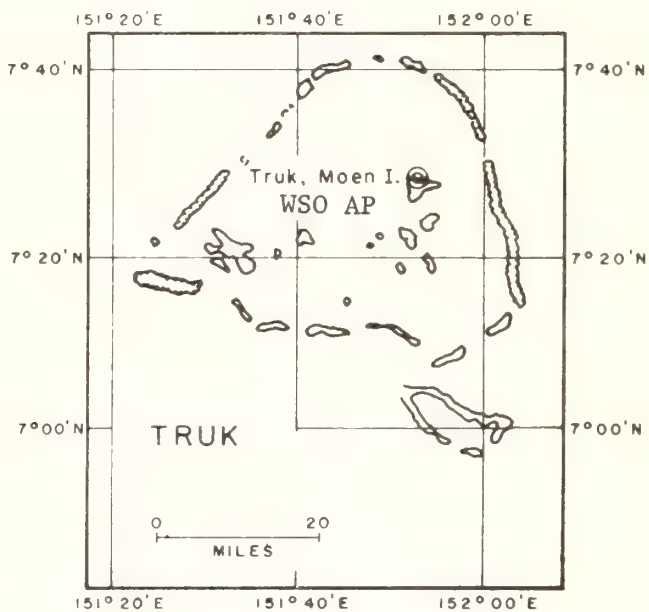
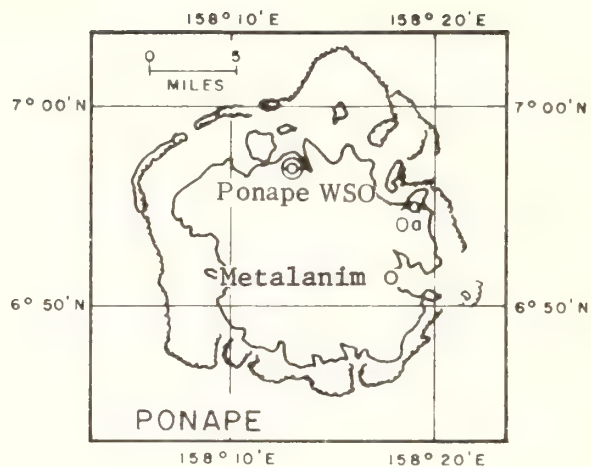
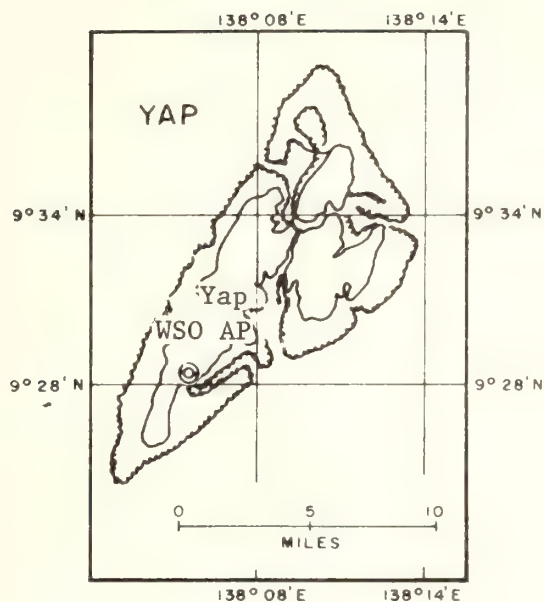




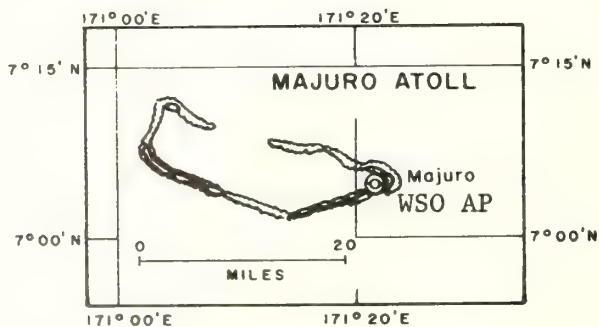
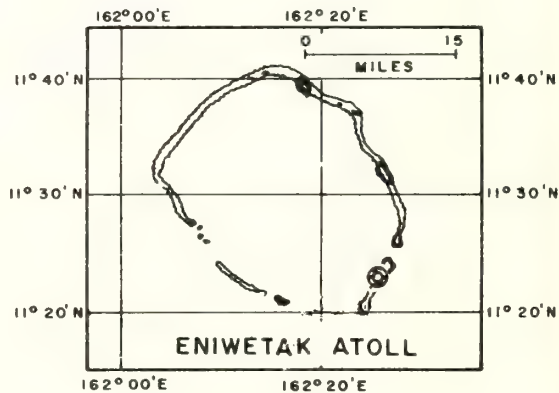
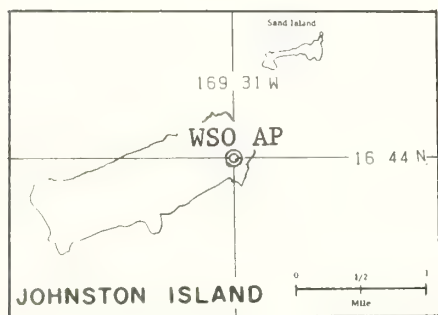
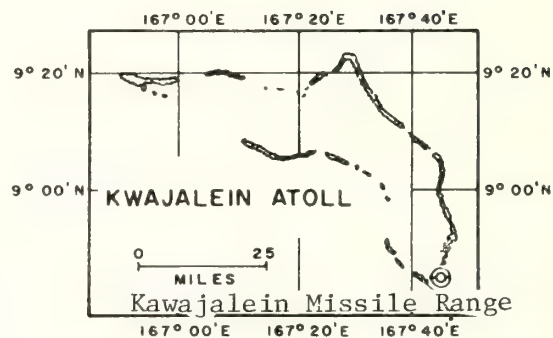
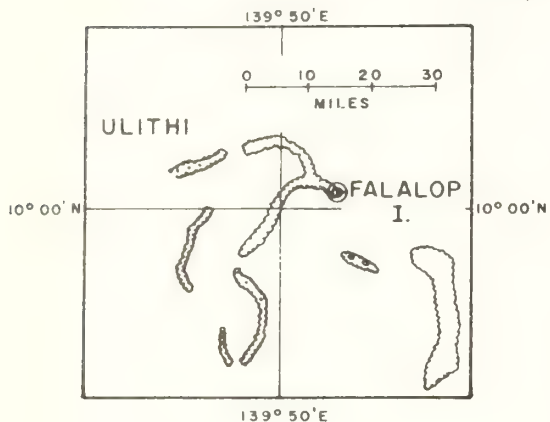
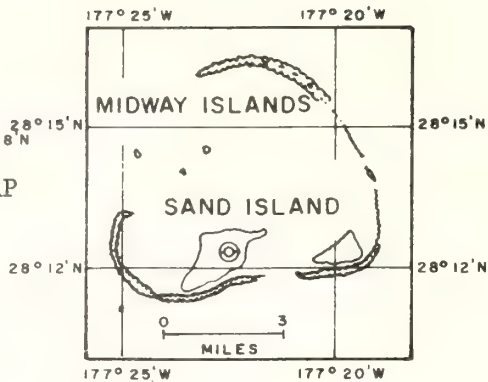
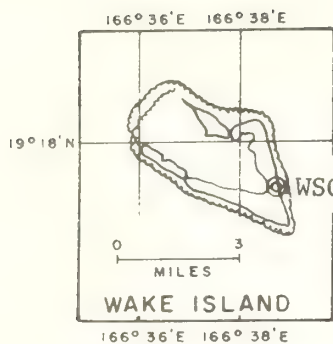


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Climatological Data

HAWAII AND PACIFIC



TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KE-AHOLE PT 68.13	HAWAII	93	DATE	04
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	32	DATE	28+
GREATEST TOTAL PRECIPITATION:	KUKUI 380	MAUI	17.50		
LEAST TOTAL PRECIPITATION:	26 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KOOLAU DAM 833	OAHU	3.10	DATE	07

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01- .09	.10- .49	50- 99	1.00 1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	23	E	10		80	81	91	0	8	12	8	0	0	28	31	8.1	
HILO WSO 87 AP	19	1.5	5.5	15++	12	29	83	76	65	85	1	10	5	2	3	0	21	51	5.2	
HONOLULU WSO 703 AP	8	6.6	10.0	23++	8	17+	82	77	57	73	10	5	0	0	0	15	76	4.6		
JOHNSTON WSO AP	8	14.4	15.1	31++	8	15	84	84	79	84	7	10	2	0	2	0	21	61	4.4	
KAHULUI WSO 398 AP	6	9.4	11.4	26	NE	18+		70	50	68	1	6	0	0	0	7	80	3.5		
KOROR WSO	7	2.3	5.5	18	SW	01	91	-	78	78	1	7	8	4	3	1	24	56	8.4	
KWAJALEIN MISSILE RGN	8	10.6	11.8	26++	13	07	81	82	74	77	6	12	8	1	1	2	30		8.1	
LIHUE WSO 1020.1 AP	6	7.0	10.6	24++	4	15	81	77	64	74	9	9	2	0	1	0	21	61	4.9	
MAJURO WSO AP	8	7.6	8.9	24	E	19+	79	80	73	77	2	7	7	3	1	0	20	74	8.6	
PAGO PAGO WSO AP	9	5.6	9.6	21++	32	18	88	85	76	82	5	6	4	4	2	0	21	28	8.1	
PONAPE WSO	-	-	-	13	N	08	90	-	75	77	2	8	11	4	2	0	27	38	8.3	
TRUK,MOEN I, WSO AP	8	3.9	6.4	19	SE	21	85		76	75	5	9	4	2	0	0	20	56	8.2	
WAKE ISLAND WSO AP	8	11.8	12.9	37++	5	16	75	75	63	71	4	9	4	0	1	0	18	77	4.3	
YAP WSO AP	7	4.8	6.8	24	SE	28	91	-	79	77	2	9	11	6	0	0	28	59	7.9	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Samuel B. Mitchell

DIRECTOR
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

HAWAII AND PACIFIC
NOVEMBER 1980

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	TEMPERATURE													PRECIPITATION										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
											30° OR ABOVE	32° OR BELOW	32° OR BELOW	0° OR BELOW										
											30° OR ABOVE	32° OR BELOW	32° OR BELOW	0° OR BELOW										
HAWAII																								
KULANI CAMP 79	66.5M	47.1M	56.8M		72	7+	37	18		0	0	0	0	0	6.01		2	10	11	0	0	15	4	1
PAHALA 21															.95									
PUUKOHOLA HEIAU 98.1	87.7	66.5M	77.1M		92	19	60	30+		36.9	0	0	0	0	.00			3	0	0	0	0	0	0
SOUTH KONA 2.31	76.5	57.9	67.2		82	8+	53	30		77	0	0	0	0	.57				0	0	0	0	0	0
WAIATAKEA SCD 88.2															8.32		1.93	21	0	0	13	6	2	
ISLAND			70.5												3.77				0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
NOVEMBER 1980

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NOVEMBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PAALILLO 221	5.72			03						01	1.74		60	87	50				45	1.20	2.								05			
PAHALA 21	95			38			03	01					12						01										05			
PANDORA 65	8.12												2	35	1.32	45			84	45	14	35	12			45	11	24				17
PAPAIKOU 144 1	7.40								06				01						1.15	58	69		0.			45						36
PAPAIKOU MAUKA 140 1	13.97			1.76									4.5						5.50							00						
PIIHONUA 89	13.60																															11.60
PUUKOHOLA HEIAU 98 1	00																															
PUG LEHUA 73	21																															
PUUHONUA-O-HONAUHOU	2.01																															
S GLENWOOD	11.24								6.1	0.1	95	2.43	6.4	10	0.3	21	02	1.62	1.12	1.4	50	0.3	16	08	42	1.4	04	70	0.4			
SOUTH KONA 2 31	57						0.4														1.1	1.4	2.3									
UPOLI POINT USCG 159 2	2.92		70	04					08	16	34	1.4					1	34	42	4.4	0.1	08	34	2.4	1.4							
WAIKAEA SCD 88 2	8.12								50	1.25	25	41	46	0.7			1	34	42	4.4	0.1	08	34	2.4	1.4							
WAIKALOA-BOIS CAS 95 8	09																															

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
AAKAOLO	11.36	.04				.78	.31																									
AFONO		T				2.80	.05																									
FALESTAD VILLAGE	11.20					.01	.12	.52																								
JOHNSTON IS WSO AP	4.33	T	T																													
MIDWAY RAND T L AND	1.28	T	T			.08																										
PAGO PAGO WSO AP	7.43					T	1.76	.29																								
WESTERN PACIFIC ISL.																																
NORTH OF 12° N																																
AGAT	5.43	.30				.50	.10																									
ANDERSEN AFB GUAM	8.00	.06	.06	.22		.52	.08	.01																								
CLARK AFB LUZON	4.53	.06	.02			.24	2.85	.03																								
DEDEGO	8.24	.35	.13			.10	.40	.05																								
GUAM NAS	5.85	.04	T	T		.46	.03	T																								
GUAM WSO	7.76	.15	.31	.08		.59	.12	.06																								
INARAJAN AG SIN	11.76	*	*	11		.26	.32	.19																								
INARAJAN - NASA	5.93	.01	.07			.33	.03																									
MANGILAO	5.33	.87	T	.25	*	.14	.06																									
MARATAG		.03	.31			.01																										
MAKES ISLAND WSO AP	3.08	.02	.04																													
TILO	7.80																															
CAROLINE AND MARSHALL ISLANDS																																
FA. ALOP I. J. LITHI ATOLL																																
KAPINGAMARANGI ATOLL																																
KOROR WSO	12.17	.13				.02	.23																									
KWAJALEIN MISSILE RGN	9.58	.7	.09	.17		.02	.02	.01																								
LEE I. KURAE																																
MAJURO WSO AP	5.15	.67	.21	.04		.01	T	.04																								
METALANIM	4.48	.73		.06																												
PONAPE WSO	7.96	.52	.01	.24		.1	.15																									
SATAHAN ATOLL																																
TRUK MOEN I WSO AP	2.98	.91	T	.17		.26																										
WOLEAI ATOLL																																
YAP WSO AP	7.20	T	.26			.05	.04	.01																								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
NOVEMBER 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUJULY 1075	MAX MIN	75 55	74 44	75 56	74 54	70 47	75 45	73 47	74 51	76 54	73 57	71 52	69 56	68 53	72 46	70 53	68 53	70 52	70 51	67 50	69 43	69 42	70 46	68 45	72 44	74 44	68 46	68 45	67 46	68 45	68 48	70.8 49.1	
KEKAHA 944	MAX MIN	84 63	86 61	83 66	84 66	83 64	86 65	85 65	88 68	87 70	87 67	83 67	86 66	83 65	82 63	81 63	84 66	85 64	84 61	85 61	85 61	81 61	85 63	85 62	84 62	82 60	83 61	85 62	85 63	83 62	82 62	84.1 63.9	
KILAUEA POINT 1133	MAX MIN			86 69	86 66	85 64	84 65	84 65			85 70	83 69	81 68	81 71	80 70		85 67	80 69	81 67	81 66	80 66			85 69	84 68	84 68	84 67	81 67					
LIHUE WSO AP 1020.1	MAX MIN	80 64	82 62	82 66	81 64	82 67	83 66	83 67	82 72	82 72	81 73	80 73	81 76	82 73	83 74	74 68	81 70	82 64	81 68	81 75	81 75	82 64	83 75	82 73	84 72	85 69	86 70	85 67	86 68	87 68	87 68	82.4 69.0	
WAIHI LOWER 1054	MAX MIN	80 62	82 60	80 60	82 62	82 62	82 68	80 64	80 68	80 64	80 70	76 66	74 66	78 64	80 64	78 64	80 62	80 68	80 68	78 68	76 64		80 60	82 62	80 68	78 64	80 64	80 64	82 62	80 60	82 60	79.6 64.1	
WAIIMEA 947	MAX MIN	89 64	88 66	88 65	89 67	90 68	88 68	87 68	90 68	89 73	88 71	88 70	87 70	88 68	88 69	79 68	87 69	89 68	87 66	87 65	88 66	86 66	87 66	88 65	86 66	88 68	88 67	86 67	87 67	85 65	87.3 67.3		
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN			87 71		88 67	87 72	86 72	84 73		84 73	85 73	84 73	85 69			84 73	84 72	82 70	85 71	85 72			92 67	85 68	85 66		85 68	86 67	86 68			
B Y U LAIE 903.1	MAX MIN	83 72	84 73	88 63	86 67	84 67	85 74	84 73	82 79	82 78	84 75	83 75	83 75	83 70	85 69	81 73	81 74	82 74	83 72	81 67	84 67	83 73	82 73	84 70	83 72	83 71	83 70	84 67	83 71	84 71	83.3 71.8		
HONOLULU OBSERV 702.2	MAX MIN	89 65	85 65	88 66	86 67	84 66	86 66	87 67	88 71	86 72	88 74	87 70	86 69	86 64	87 67	86 67	88 70	87 67	88 71	87 65	89 64	83 65	87 65	87 68	89 65	87 65	89 67	86 67	84 65	84 63	83 63	86.4 66.9	
HONOLULU WSO AP 703	MAX MIN	85 68	87 67	86 68	85 69	87 68	87 74	88 75	85 72	88 76	87 75	85 71	86 72	86 71	86 70	85 72	86 73	86 73	85 73	86 70	87 66	88 67	87 69	86 73	86 70	88 68	84 70	84 67	83 65	82 64	85.9 70.0		
KANEHE MAUKA 781	MAX MIN	79 77	83 73	83 75	82 74	81 74	84 73	76 76	81 74	80 76	82 74	82 75	81 75	81 72	85 73	77 72	81 73	82 73	82 72														
KII KAHUKU 911	MAX MIN	82 64	82 65	81 67	83 68	84 67	83 72	82 72	84 74	83 71	82 72	82 72	82 71	83 67	86 69	77 71	81 74	82 71	82 67	84 67	84 67	84 74	83 72	83 71	83 70	82 69	83 68	83 66	83 65	83 64	83 64	82.7 69.6	
MANOA LYON ARBORETUM	MAX MIN	83 68	86 64	87 64	83 65	89 67	87 66	79 69	83 68	75 69	80 71	81 66	80 68	81 65	85 66	75 67	82 67	80 65	81 67	85 67	82 65	80 67	85 70	83 69	81 68	85 68	86 66	85 66	86 65	85 64	85 61	82.6 66.7	
OPAULA 870	MAX MIN	83 64	81 63	83 65	85 65	85 66	86 66	88 68	79 72	80 69	86 70	90 69	88 68	90 68	77 67	81 69	90 69	87 65	88 64	88 63	79 63	78 64	80 66	80 66	80 68	80 67	80 68	80 67	80 66	80 65	80 64	84.1 67.1	
PUU MANAWAHUA 725.6	MAX MIN	81 62	81 63	83 65	80 65	82 66	81 67	80 68	78 67	79 67	77 64	77 64	79 64	81 65	74 64	77 65	79 65	78 64	79 63	80 63	79 63	80 64	80 65	80 64	80 65	80 64	80 65	80 64	80 63	80 62	80 61	79.5 64.2	
WAIALUA 847	MAX MIN	84 62	82 62	85 66	83 65	84 65	85 64	87 68	86 70	82 68	84 70	85 67	86 67	83 61	86 64	85 65	84 64	85 61	87 65	88 64	87 63	88 64	87 63	88 64	86 63	84 62	84 60	84 60	84 60	84 60	84 60	84.4 64.2	
WAIKIKI 717.2	MAX MIN	86 66	84 66	87 66	87 66	89 67	92 68	87 68	88 71	87 74	85 73	87 72	85 71	85 71	87 68	88 69	80 69	86 71	86 71	86 69	86 65	88 68	89 71	87 68	89 71	87 68	88 68	88 66	88 64	88 62	87.0 68.5		
WAIMANALO EXP FM 795.1	MAX MIN	83 69	82 65	82 65	82 67	82 68	84 72	84 72	83 71	80 69	82 68	83 75	81 67	81 74	85 66	85 69	80 69	82 72	82 74	82 72	82 67	82 68	82 74	82 70	82 71	82 74	82 70	82 70	82 68	81 66	83 62	82.1 69.5	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	87 71	85 65	86 64		87 66	88 71	86 72	88 72		85 72	86 70		86 67	86 65	88 67	85 70	85 72	85 71	85 67	86 67	87 67		83 67	84 67	84 65	83 68	82 66		86 61		85.5 67.9	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	80 62	81 63	80 59	80 66	82 64	80 67	80 62	74 64	80 60	83 62	81 67	81 60	81 58	79 58	80 60	76 67	81 60	80 65	80 62	81 63	81 60	80 52	82 60	82 53	79 57	80 64	78 61	80 62	80 58	82 54	80.1 61.2	
LANAI CITY 672	MAX MIN	74 64	75 62	81 59	79 64	78 61	77 66	73 64	78 65	74 66	79 61	76 65	76 61	81 58	84 59	83 66	74 63	78 62	76 64	76 61	81 64	78 60	77 61	78 60	75 59	81 61	78 63	76 62	76 61	80 60	80 60	77.6 62.1	
ISLAND OF MAUI																																	
HALEAKALA R S 338	MAX MIN	67 45	68 44	68 46	69 45	66 49	70 55	72 54	73 51	67 48	66 49	61 46	63 42	64 43	63 40	61 40	65 44	65 42	66 42	65 39	62 39	69 40	62 44	63 43	60 38	62 40	66 46	65 42	62 42	62 41	68 40	65.3 44.0	
HANA AIRPORT 355	MAX MIN	82 70	83 66	83 66	83 70	83 69	84 69	84 72	85 72	82 75	83 72	85 71	82 71	83 69	81 76	83 75	82 69	84 73	82 73	83 73	83 71	82 73	82 70	82 74	82 73	81 72	83 72	82 69	82 66	83 69	82.7 71.1		
KAANAPALI AP 453.1	MAX MIN	86 69	86 71	86 70	84 70	85 69	88 75	86 73	87 76	88 74	88 75	87 73	86 70	86 66	86 68	86 69	85 73	86 73	86 70	87 67	86 67	87 72	86 70	86 69	87 67	86 68	87 67	85 67	85 67	85 67	85 67	85.8 70.2	
KAHULUI WSO 398 AP	MAX MIN	88 66	87 67	89 67	87 68	87 66	89 66	90 66	87 76	87 77	88 76	86 74	88 66	89 71	87 64	86 66	88 71	87 73	86 74	88 69	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	88 67	87.4 68.9	
KAILUA 446	MAX MIN	76 66	78 65	78 64	80 64	80 67	80 66	79 63	78 68	75 66	78 68	78 63	76 65	77 62	76 62	79 66	77 62	75 63	78 66	77 66	78 67	78 67	78 65	78 65	78 65	77 63	77 63	77 63	77 63	77 63	77 63	77.6 65.3	
KEAWAKAPU BEACH 260.2	MAX MIN	84 66	86 67	86 67	86 68	88 67	87 68	89 68	87 68	90 68	89 68	89 68	87 64	90 63	86 65	87 66	86 65	88 65	87 65	88 65	88 65	87 65	88 65	87 65	88 65	87 65	88 65	87 65	84 65	84 65	83 65	86.8 66.3	
KULA BRANCH STN 324.5	MAX MIN		75 56			76 57	74 57				76 56	75 54	75 56	76 54	72 58	76 54	76 54	76 54	74 55	75 55	75 55	74 57	71 55	70 54	74 55	75 56	71 55	72 55	72 55	74.1 55.4			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
NOVEMBER 1980

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KILAUEA HOSPITAL 267	MAX MIN	74 54	75 54	75 55	75 56	74 55	74 55	74 54	75 55	76 56	75 55	76 56	76 55	75 55	75 53	76 54	75 53	75 54	76 54	76 56	76 55	76 54	75 53	76 54	76 54	76 56	75 56	75 56	74 57	75 53	75 56	75.2 54.7		
LAHAINA 361	MAX MIN	81 65	81 66	87 66	88 66	89 66	89 67	87 67	87 67	90 66	91 67	88 68	87 64	87 64	86 63	84 65	84 66	88 64	89 65	88 66	87 65	84 65	84 64	87 63	89 64	88 64	82 68	82 64	83 64	84 62	88 63	86.6 65.1		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	75 50	77 45	77 45	77 54	76 55	77 53	76 55	74 57	69 54	66 54	69 56	67 55	68 50	70 50	74 57	70 53	75 55	69 56	70 57	71 53	72 51	72 51	70 51	69 51	70 51	74 50	75 49	73 47	73 49	69 45	72.1 52.0		
HILLO WSO AP 87	MAX MIN	84 62	82 62	84 62	85 66	85 65	83 66	85 67	83 69	81 67	82 68	79 68	82 66	82 65	80 65	82 61	82 64	82 69	81 70	81 65	84 63	83 64	83 68	81 66	81 67	82 65	79 65	82 64	82 62	83 63	83 62	82.3 65.2		
KAHALA 730	MAX MIN	79 60	80 60	81 60	77 64	78 62	81 64	81 62	80 65	79 64	81 63	78 64	78 60	81 61	79 60	80 60	80 62	80 62	81 63	80 63	80 62	80 62	80 61	80 62	80 60	80 60	80 62	80 59	79 59	80 60	79.7 61.5			
KAPOHO BEACH 93.11	MAX MIN	86 67	88 64	87 66	89 69	91 68	90 70	89 69	86 69	86 72	85 73	85 70	83 73	86 67	88 70	87 66	85 69	86 70	84 72	84 68	85 66	85 68	87 68		85 68	83 69	85 70	83 68	85 65	86 67	87 65	86.1 68.5		
KE-AHOLE PT 68.13	MAX MIN	87 65		87 70	93 72	88 74	88 74	88 71	89 66	90 66	89 50	88 52	88 58	88 45	88 44	88 48	89 54	89 54	86 37	87 40	84 70		89 69	87 67	87 68	85 69						87.9 69.7		
KULANI CAMP 79	MAX MIN	68 46	68 44	71 45		69 43	72 43	72 49	68 52	68 51	60 50	63 52	62 58	65 45	65 44	64 48	69 54	67 54	67 37	63 50	65 42	66 41	66 55	66 46	66 48	65 44	66 45	66 44	67 44		67 40	66.5 47.1		
LALAMILU FLD 0 191.1	MAX MIN		80 61	81 59	79 56	72 65	79 65	78 66	78 67	78 65	79 64	79 65	79 65	79 64	80 70			77 64	77 64	77 65	80 71	80 64	80 65	80 64	80 64	79 60	80 76	81 81				78.8		
MAUNA LOA SLOPE OBS	MAX MIN	56 38	58 38	59 38	59 43	59 41	62 46	57 44	60 39	52 38	51 37	51 38	55 35	59 37	59 37	55 35	53 39	54 37	54 36	56 38	61 43	59 44	60 42	58 39	57 41	50 35	50 32	51 34	50 32	52 35	52 34	55.6 38.2		
MOUNTAIN VIEW 91	MAX MIN	80 57	81 57	81 57	82 60	83 61	83 61	81 62	78 64	77 65	76 64	77 63	74 63	76 59	77 60	74 58	78 62	80 58	77 64	77 62	77 59	78 58			79 60	78 61	79 60	78 57	81 58	77 58	81 57	78.6 60.2		
NAALEHU 14	MAX MIN	84 67	84 65	84 63	85 64	83 69	80 67	84 68	85 74	84 71	80 69	80 67	77 67	80 66	80 67	83 68	83 72	82 67	82 68	82 69	82 68	82 70	80 68	81 68	81 68	81 66	81 66	80 65	80 65	80 62	82 62	81.9 67.5		
OOKALA 223	MAX MIN	80 65	81 66	81 67	82 67	82 68	83 67	81 70	81 69	81 68	78 69	79 68	75 65	78 66	81 62	80 65	80 65	79 65	80 68	80 70	79 67	79 68	82 67	81 68	79 71	79 72	80 65	78 65	77 65	80 66	79.8 67.0			
OPIHIHALE 2 24.1	MAX MIN	79 61	81 60	79 63	77 63	82 64	81 61	81 62	82 63	81 63	77 64	81 61	82 62	79 59	81 60	80 61	81 61	82 61	82 59	80 59	80 59	82 59	81 62	78 58	80 59	80 60	81 61	80 60	82 59	81 59	81 59	80.5 60.7		
PUUKOHOLA HEIAU 98.1	MAX MIN	89 68	89 69	86 69	86 71	87 70	87 69	89 68	89 67	89 69	91 71	91 65	91 65	89 65	82 65	79 66	90 63	91 60	89 68	92 64	84 67	86 65	89 66	88 66	87 67	87 67	86 66	87 67	88 66	86 60	87.7 66.5			
SOUTH KONA 2.31	MAX MIN	79 55	80 57	78 56	80 59	74 56	79 56	82 60	82 63	74 60	74 57	78 61	74 57	78 60	76 56	76 54	76 62	80 62	77 61	77 60	68 57	78 56	76 61	76 61	71 60	78 56	75 55	72 55	77 55	75 57	74 53	76.5 57.9		
UPOLU POINT USCG 159.2	MAX MIN	85 69	86 69	86 73	86 67	87 68	87 71	86 72	86 72	82 64	80 69	83 69	82 69	84 70	85 68	86 70	86 68	88 71	83 69	82 68	82 69	80 72	83 70	83 71	81 69	80 73	83 69	83 68	83 70	84 72	84 72	83.9 69.6		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	MAX MIN	86 79	87 79	86 79	85 77	86 78	86 79	86 80	82 76	86 76	85 72	79 71	82 76	82 75	84 73	84 76	84 73	84 78	85 76	84 76	84 78	85 75	84 75	83 78	84 75	84 77	85 77	84 76	84 77	84 77	84 76	84 77	84 77
MIDWAY SAND ISLAND	MAX MIN	80 74	83 75	83 63	84 77	80 72	76 70	78 70	75 70	80 74	81 73	79 73	81 71	74 70	75 68	77 69	77 71	79 72	79 69	81 72	77 71	74 67	74 62	77 69	80 73	80 71	80 76	79 73	77 74	75 70	75 69	78 70	79 69
PAGO PAGO WSO AP	MAX MIN	87 80	87 79	84 80	87 80	84 75	86 74	81 74	84 78	85 77	87 76	87 74	87 74	87 80	86 79	88 77	88 75	87 75	86 76	86 75	85 74	89 74	87 74	89 81	89 78	88 78	88 80	87 80	86 75	88 75	91 79	86 76	86 74
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	86 81	85 79	86 80	85 80	86 79	86 81	86 79	85 80	84 79	85 79	86 80	86 80	84 79	87 80	84 77	85 78	86 79	83 74	84 76	85 79	85 80	84 76	84 79	86 77	84 79	85 78	86 80	86 79	82 76	83 78	85 78	85 78
CLARK AFB LUZON	MAX MIN	90 77	84 75	86 75	82 73	82 75	88 75	86 72	86 72	88 73	86 75	88 75	81 73	88 75	88 77	88 75	90 75	88 77	91 77	90 79	91 77	91 77	88 77	90 77	90 77	88 79	88 77	90 75	88 75	88 72	88 72	87 75	87 74
GUAM NAS	MAX MIN	89 79	89 78	89 79	89 78	89 80	89 79	89 78	88 78	88 78	89 78	89 78	89 78	88 77	89 78	87 77	88 79	87 78	88 76	88 76	88 77	88 78	87 77	90 76	89 78	87 78	88 75	87 78	88 76	84 74	85 75	88 77	88 75
GUAM WSMO	MAX MIN	88 76	87 74	87 74	87 75	86 77	88 76	87 74	87 75	86 75	86 76	87 75	85 75	86 75	86 76	86 69	86 74	85 76	85 75	87 71	86 74	86 77	85 73	87 73	89 71	87 72	86 71	86 78	86 76	84 72	84 75	86 75	86 74
INARAJAN - NASA	MAX MIN	87 68	88 68	87 66	88 66	87 66	87 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66	88 66
WAKE ISLAND WSO AP	MAX MIN	88 78	87 76	89 79	88 76	88 75	87 74	89 76	88 78	88 76	87 75	87 78	84 75	83 75	87 76	85 74	87 74	87 79	87 79	87 78	87 77	87 77	87 75	87 77	87 76	87 76	87 76	87 76	87 76	87 76	87 76	87 76	87 76
CAROLINE AND MARSHALL ISLANDS																																	
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 77	89 78	90 78	90 76	92 78	89 77	88 73	90 76	91 76	90 76	89 75	91 74	88 75	91 76	91 77	90 76	90 74	90 75	90 77	90 76	92 77	89 76	91 76	91 77	90 75	90 75	90 76	89 77	90 77	90 75	90 75	90 75
KWAJALEIN MISSILE RGN	MAX MIN	86 75	88 78	86 76	88 79	88 75	89 78	85 72	87 78	88 77	88 74	87 77	86 77	88 76	88 79	87 74	87 78	88 78	88 77	88 73	88 80	88 79	88 74	88 76	88 77	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	83 74	87 74	87 76	87 78	88 78	88 77	88 75	87 76	88 76	88 75	87 75	85 78	87 77	87 78	87 76	88 78	85 73	87 79	86 76	88 74	88 81	87 80	88 77	85 77	87 80	88 78	86 77	87 75	86 75	86 80	86 80	
METALANIM	MAX MIN	82 74	87 74	89 73	89 75	88 72	88 74	88 75	88 74	88 74	87 74	87 74	87 73	88 72	88 72	88 72	88 73	88 72	85 78	88 72	86 77	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75	88 75
PONAPE WSO	MAX MIN	81 73	90 74	91 74	92 72	90 72	90 74	90 75	91 75	90 74	90 75	91 74	89 72	90 72	91 73	87 74	91 73	89 73	91 72	90 72	90 77	89 75	92 74	91 75	90 76	90 74	88 70	90 79	90 73	90 75	91 75	89 73	89 75
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	85 71	87 73	88 73	86 72	87 72	89 73	88 76	89 75	87 76	88 78	88 77	88 74	88 74	89 73	88 74	89 74	89 75	89 73	88 77	90 73	89 74	90 75	88 74	88 76	88 78	89 77	88 74	88 73	88 75	88 75	88 75	
MOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	88 76	88 69	88 73	89 72	89 75	89 76	89 75	82 71	88 75	82 74	88 74	88 74	87 74	88 74	88 73	88 74	88 76	88 73	88 73	88 73	88 74	88 73	88 73	88 73	88 73	88 73	88 73	88 73	88 73	88 73	88 73	88 73

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
NOVEMBER 1980

STATION	DATE	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
4	MAX	83	83	82	84	83	84	84	82	83	83	83	83	82	80	82	83	82	81	82	80	80	82	82	80	80	79	85	83	80	85	82.1		
	MIN	74	75	76	76	76	74	75	75	77	75	77	75	77	75	74	76	76	74	74	73	72	74	73	72	72	72	75	77	73	77	74.7		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
NOVEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KII-KAHUKU 911	(1N)																																	
	4	MAX	79	79	78	80	79	78	78	77	77	78	76	76	76	78	75	81	77	76	75	76	76	77	77	76	76	77	78	76	76	77	77.1	
		MIN	74	73	74	74	74	75	76	75	74	75	74	73	73	73	74	75	73	73	73	72	74	74	73	74	74	74	74	74	73	73	73.8	
MANOA LYON ARBORETUM	(1N)																																	
	4	MAX	76	76	77	76	79	79	77	77	76	77	76	76	75	76	74	75	76	76	76	75	76	77	76	76	76	76	77	77	77	77	76.5	
		MIN	73	73	73	73	73	74	74	74	74	74	74	73	73	73	74	74	73	74	73	73	74	74	74	74	74	73	74	73	74	73	73.5	
WAILAUA 847	(1N)																																	
	4	MAX				82	84	84	84				80	84	81	81				74	80	81	80				82	82						
		MIN				71	71	71	71				72	73	73	73				67	68	68	68				69	69						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
NOVEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KULA BRANCH STN 324.5	IN																																	
	4 MAX MIN			70 66		69 66	69 67	69 66	- -	- -	70 67	- -	70 66	69 66	68 66	- -	- -	70 67	68 67	69 67	69 66	68 66	- 65	- -	- -	69 65	67 65	67 64	- 65	67 64	- -	67 64	- -	- -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
NOVEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAINALIU 73.2	(11N)																																	
	4	MAX	-	-	78	-	77	77	79	-	-	79	-	76	76	75	-	-	76	76	76	77	78	-	-	78	77	76	-	78	-	-	-	-
LALAMILO FLD 0 191.1	(11N)																																	
	4	MAX	-	-	75	-	76	74	74	-	-	72	-	71	73	73	-	-	77	71	72	73	74	-	-	71	71	70	-	72	-	-	-	-
		MIN	-	-	67		68	69	69			67		67	66	65			66	67	67	65	65			65	65	65		66				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
STATION																																
PLAN OF STAGE																																
PLAN OF STAGE	EvAP	15	21	18	13	28	06	39	26	24	22	25	20	30	08	25	19	26	25	28	20	13	05	28	32	15	27	20	17	17	09	6.13
	WIND	111	70	68	85	71	71	160	212	241	244	255	183	230	116	91	409	197	187	74	62	91	174	205	147	104	85	73	73	75	43088	
	MAX	86	85	89	89	89	81	89	87	85	85	84	84	84	82	84	84	83	86	85	85	84	84	86	87	86	89	90	89	90	89	86.0
	MIN	65	65	65	67	67	61	68	71	71	71	70	68	67	67	65	69	66	69	71	67	66	65	64	69	69	63	69	68	67	64	67.2
PLAN OF STAGE																																
PLAN OF STAGE	EvAP	30	30	40	22	30	14	30	37	28	37	37	30	34	36	40	18	30	45	30	35	30	30	30	37	45	23	30	22	30	30	9.60
	WIND	18	21	24	14	15	17	17	28	26	36	35	27	29	20	20	12	26	33	23	15	32	17	20	20	15	19	17	17	14	19	651
	MAX	89	91	89	87	91	91	95	89	87	87	89	88	84	88	90	80	87	88	86	88	87	87	88	86	88	84	87	88	88	87	87.5
	MIN	62	65	65	66	65	65	64	68	68	67	66	65	63	63	65	67	65	64	63	62	63	64	65	65	63	63	65	66	64	63	64.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
• • • EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	18	32	26	19	31	23	43	16	25	20	-	33	35	31	36	33	23	32	28	23	16	26	42	32	21	24	20	20	23		8 058
	WIND	129	132	98	76	122	164	179	171	170	188	193	232	210	183	199	224	212	154	178	156	137	153	176	185	178	104	147	138	156	145	4889
PAGO PAGO WSO AP	EVAP	-	-	30	15	01	-	-	48	71	21	22	-	26	27	15	35	03	10	09	32	27	34	28	26	31	36	17	25	33		7 198
	WIND	160	139	196	97	26	146	87	71	49	47	107	97	131	39	50	40	45	48	62	68	140	99	89	130	133	76	106	152		2883	
	MAX	91	91	91	91	90	88	83	89	89	91	85	88	90	89	92	81	92	93	91	90	92	90	91	90	91	90	88	88	87	94	89 8
	MIN	71	73	72	73	72	74	70	73	70	74	74	74	75	72	75	76	75	74	76	72	73	73	73	73	76	76	76	75	74	74	73 6
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	24	13	20	19	38	23	29	27	46	35	07	28	41	24	10	25	23	11	32	25	30	16	23	28	23	16	25	16	10	23	7 10
	WIND	110	63	55	51	90	108	93	105	98	144	129	135	137	119	58	106	112	48	38	70	78	95	57	21	35	48	110	140	111	115	2649
	MAX	88	91	90	85	87	90	88	87	88	96	88	85	87	87	87	85	84	87	89	87	88	83	88	93	89	90	87	86	84	84	87 4
	MIN	71	73	70	72	73	73	72	72	71	72	73	73	72	71	72	71	72	72	68	73	73	73	72	71	71	71	72	73	71	72	71 8
• • • CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP	29	17	12	20	21	24	27	02	20	06	16	15	07	18	09	17	28	18	15	19	17	06	10	20	10	22	28	21	26	24	5 24
	WIND	131	56	51	12	42	67	44	33	76	22	111	55	31	55	41	44	40	29	42	34	24	37	16	35	42	124	75	63	84	1580	
	MAX	91	94	94	92	95	94	91	86	92	85	40	93	83	94	91	92	95	94	88	91	95	86	90	85	88	89	89	87	92	91	90 6
	MIN	73	73	73	74	73	73	73	73	73	73	72	72	73	72	74	73	73	74	73	72	72	74	73	73	72	73	72	72	72	72	72 8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER BEACH 981		3140	02	KOLOA	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A	0145	01	KAWAIHAU	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A	0240	02	KOLOA	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A	0456	02	KOLOA	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A	0470	02	KOLOA	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A	0945	01	KAWAIHAU	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAOH 1006	A	1038	02	LIHUE	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2		1140	02	KAUAI	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A	1170	01	KAWAIHAU	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945		2161	03	WAIMEA	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A	2222	02	LIHUE	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A		2227	01	HANALEI	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075		3099	03	WAIMEA	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIHAU	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104		3159	01	KAWAIHAU	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1113	A	3982	01	KAWAIHAU	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944		4272	03	WAIMEA	21 58	159 43	9	8A	8A		CG	KEKAHA SUGAR CO LTD
KILAUEA 1134	A	4561	01	HANALEI	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANALEI	22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033		4735	03	WAIMEA	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A	4742	02	KOLOA	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A	4750	02	KOLOA	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOA RES 1137	A	4758	01	KAWAIHAU	22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A	4950	02	KOLOA	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A		5560	02	LIHUE	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A	5575	02	LIHUE	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAHAULEPU 941.1		5710	02	KOLOA	21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A	5864	03	WAIMEA	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A	6433	01	WAIMEA	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A	6529	01	KAWAIHAU	22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R	6565	03	WAIMEA	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035		6850	03	WAIMEA	22 02	159 44	1250		6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A	6888	02	LIHUE	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A	6893	02	KIHUE	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115		8155	01	HANALEI	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117		8165	01	HANALEI	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040		8205	03	WAIMEA	22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A	8217	02	LIHUE	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A	8941	02	KOLOA	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054		8958	02	LIHUE	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052		8966	02	LIHUE	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAWA 943		9253	03	WAIMEA	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A	9467	02	LIHUE	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIMEA 947		9629	03	WAIMEA	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A	9955	02	KOLOA	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5		0248	02	OAHU	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807		0300	03	EWA	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741		0507	03	EWA	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19		1308	02	OAHU	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A	1540	03	EWA	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2		1918	03	EWA	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSFO AP 703	#	1919	02	HONOLULU	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3		2410	04	WAILAUA	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAULOA	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHANA 912	A	2570	01	KOOLAULOA	21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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STATION INDEX

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					KAILUA FIRE STATION BOARD OF WTR SUPPLY HAWAII STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC JEFF WALLACE US ARMY SCHOFIELD BRKS HON BOTANIC GARDENS CAPITAL INVESTMENT CO
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910					
KANEOME MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	MID			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A		G	
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	280					
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS CHARLES COOKE LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		G	
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER ROBERT E WHITE
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20					
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUEKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1330		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854					
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		G	
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	50		7A			
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120					
WAIKANE 892	9593	05	WAIALUA		21 38	158 04	330					
WAIKANE 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN)
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140					
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825					
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070					
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			U S D A DOLE COMPANY HAWAIIAN AIR DOLE COMPANY U S D A KOELE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620		7A		C	
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1430		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEAKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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							TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI											
AUWAHI 252	A 0175	02 HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
HAELAAU 477	A 0790	04 LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	A 0995	01 MAKAWAO		20 51	156 18	2100		7A			MAUI LAND-PINEAPPLE CO
HALEAKALA RANCH 432	A 0999	01 MAKAWAO		20 50	156 19	1850		VAR			U H MAUI AGRI EXP STN
HALEAKALA R S 338	A 1075	02 MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA RANCH CO
HAMAKUAPOKO 485	A 1106	01 MAKAWAO		20 52	156 21	1070		3A			HALEAKALA NAT PARK
HANA AIRPORT 355	A 1106	01 HANA		20 55	156 21	320		5A			MAUI LAND-PINEAPPLE CO
HOLUA CABIN 259.5	A 1552	02 MAKAWAO		20 48	156 01	61	8A	8A			HAWAIIAN COM & SUG CO
				20 45	156 13	6930		MO			ROYAL HAWAIIAN AIRLINES
											HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04 LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
	A 1914	04 LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01 MAKAWAO		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
KAANAPALI AP 453.1	A 2307	04 LAHAINA		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAHAKULOA MAUKA 482.3	A 2455	03 WAILUKU		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04 LAHAINA		20 53	156 33	650					EDWARD CHANG
KAHULUI WSO 398 AP	R 2572	03 WAILUKU		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAILUA 446	A 2679	01 MAKAWAO		20 54	156 26	48	MID	MID			NATL WEATHER SERVICE
				20 51	156 16	2520		MO			E MAUI IRR CO LTD
				20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAAULA INTAKE 375	A 3433	04 LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	A 3576	02 HANA		20 39	156 08	1020					KAUPO RANCH CO
KEAHUA 410	A 3910	03 MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01 HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	A 4489	02 MAKAWAO		20 42	156 27	20	8A	8A			ALLEN L CORELL
KIPAHULU 258	A 4634	01 HANA		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KUKUI 380	A 4887	04 LAHAINA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KULA BRANCH STN 324.5	A 5000	02 MAKAWAO		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA HOSPITAL 267	A 5006	02 MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH C
				20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	A 5177	04 LAHAINA		20 53	156 41	45	7A	7A			PIONEER MILL CO LTD
LAUNIPOKO INTAKE 376	A 5404	04 LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIPOKO VILLAGE 372A	A 5408	04 LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01 MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04 LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 5811	04 LAHAINA		20 54	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6646	04 LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01 MAKAWAO		20 46	156 17	4127		VAR			E MAUI IRR CO LTD
OWALU 296.1	A 7059	04 LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7114	01 HANA		20 49	156 07	1260		VAR			E MAUI IRR CO LTD
PAIA 406	A 7566	01 WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7774	02 HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	A 7952	01 MAUI		20 54	156 17	830					BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03 WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	A 8070	02 MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUGHOKAMOA 2 343	A 8336	01 HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	A 8543	03 WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01 HANA		20 46	156 03	2160					E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	A 8636	03 WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03 MAKAWAO		20 46	156 23	1310					KAONOULU RANCH
UKUMEHAME 301	A 8744	01 MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
ULUPALAKUA RANCH 250	A 8750	04 LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
WAHIKULI 364	A 8760	02 MAKAWAO		20 39	156 24	1900		8A			ULUPALAKUA RCH CO LTD
WAIHEU CAMP 484	A 8955	04 LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEE VALLEY 482	A 9175	04 WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9315	04 WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI DAM 336	A 9332	01 HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAPU 390	A 9335	01 MAKAWAO		20 49	156 14	4320					E MAUI IRR CO LTD
WAILUA 1KI 348	A 9376	03 WAILUKU		20 51	156 31	370					WAILUKU SUGAR CO
	A 9460	01 HANA		20 48	156 09	2630					E MAUI IRR CO LTD
WAILUKU 386	A 9484	03 WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9774	01 HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII											
AHUA UMI 75	A 0040	04 N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAULU 89.2	A 0150	01 HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	A 0840	01 HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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STATION	INDEX NO.	DIVISION	DISTRICT	LATITUDE	LONGITUDE	ELEVATION	PRESERVATION TIME AND TABLES				REMARKS
							TEMP	REL	WIND	SPECIAL	
ISLAND OF HAWAII											
HAKALAU 142	1013	03	KA'U	19 24	155 08	105	7A				MAUNA KEA SUGAR CO
HALEMAUMAU 52	1013	03	KA'U	19 24	155 17	3648	VAR				HAWAII STATE PARK
HALEPOHAKU 111	1013	03	HAMAKUA	19 46	155 28	9220	3P				MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	03	KA'U	19 24	155 17	3648	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	1339	01	N KOHALA	20 14	155 50	580		6A			K L BOND
HAW'N OC VW EST 3.9	1339	02	KA'U	19 07	155 47	2900					RUSSELL P SMITH
HILO COUNTRY CLUB 86.4	1487	02	HAWAII	19 17	155 17	1600					HILO COUNTRY CLUB
HILO WSO AP 87	1487	02	S HILO	19 17	155 04	36			C	J	NAT WEATHER SERVICE
HONAUNAU 27	1665	04	S KONA	19 25	155 53	940		7A			MAUNA KEA SUGAR CO
HONOHINA 137	1701	03	N HILO	19 17	155 09	1100		7A			MAUNA KEA SUGAR CO
HONOHU MAUKA 138	1701	03	S HILO	19 17	155 09	1100					MAUNA KEA SUGAR CO
HUEHUE 92.1	1701	03	N KONA	19 17	155 59	1960		7A			MAUNA KEA SUGAR CO
KAHALA 29	2686	04	SOUTH KONA	19 30	155 55	1940		VAR			MAUNA KEA SUGAR CO
KAHUA RCH HQTRS 176.3	2686	04	HAWAII	19 37	155 48	3240					MAUNA KEA SUGAR CO
KAILUA HEIGHTS 68.15	2686	04	KONA	19 37	155 58	500		8A			MAUNA KEA SUGAR CO
KAINALIU 73.2	2751	04	N KONA	19 32	155 56	1500	7A	7A		G	MAUNA KEA SUGAR CO
KALAOA 69.22	2847	04	HAWAII	19 44	155 57	2000		8A			MAUNA KEA SUGAR CO
KALAPANA 1 67.8	2894	03	S HILO	19 20	155 02	10		VAR			MAUNA KEA SUGAR CO
KAMAOA 2 5	3300	03	KA'U	19 02	155 41	1375		WI			MAUNA KEA SUGAR CO
KAPAPALA RANCH 36	3300	03	KA'U	19 17	155 27	2140		6A			MAUNA KEA SUGAR CO
KAPOHO BEACH 93.11	3388	02	HAWAII	19 17	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	3388	02	PUNA	19 17	154 49	290		VAR			H E MC NICHOLS
KAWAINUI LOWER 193	3770	01	HAMAKUA	19 05	155 02	285		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3910	02	PUNA	19 17	155 02	285		6A			DAVIES HAMAKUA SUGAR CO
KE-AHOLE PT 68.13	3910	04	N KONA	19 43	156 04	20	6P	6P			DAVIES HAMAKUA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	19 14	155 02	1700					DAVIES HAMAKUA SUGAR CO
KEALAKEKUA 3 29.11	3985	04	S KONA	19 17	155 59	1530					DAVIES HAMAKUA SUGAR CO
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	19 04	155 02	5280					DAVIES HAMAKUA SUGAR CO
KIOLAKAA A & F 6	4625	03	KA'U	19 04	155 25	350		MO			DAVIES HAMAKUA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	20 14	155 48	537		7A			DAVIES HAMAKUA SUGAR CO
KOIAWE LOWER 196	4685	01	HAMAKUA	19 04	155 02	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	4764	04	N KONA	19 29	156 01	720					DAVIES HAMAKUA SUGAR CO
KONA VILLAGE 93.8	4764	04	N KONA	19 29	155 59	720		8A			DAVIES HAMAKUA SUGAR CO
KUKAIAU 222	4815	01	HAMAKUA	19 07	155 02	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	19 07	155 02	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHALE MILL 206	4928	01	HAMAKUA	19 07	155 02	980		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	19 33	155 02	300	7A	7A			DAVIES HAMAKUA SUGAR CO
KULANI MAUKA 76	5018	05	N HILO	19 33	155 02	8300		WI			MAUNA KEA OBSERVATORY
KULANI SCHOOL SITE 78	5011	02	S HILO	19 33	155 02	5735		WI			MAUNA KEA OBSERVATORY
LALAMILLO FLD 0 191.1	5260	01	S KOHALA	20 14	155 41	537		3P		CG	STATE DEPT OF AGRIC
LANIHAW 68.2	5330	04	N KONA	19 40	156 02	1530		7A			KONA EXPERIMENT STATION
MAKALAU 103	5761	03	HAWAII	19 59	155 33	1760		VAR			KONA EXPERIMENT STATION
MANUKA 2	6134	03	KA'U	19 07	155 50	1760		8A			STATE DIV OF PARKS
MAUNA KEA OBS 111.2	6183	03	HAWAII	19 45	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	19 32	155 35	1315	MID	MID			MAUNA KEA OBSERVATORY
MIDDLE PEN 147.1	6270	01	N KOHALA	20 07	155 50	1380		VAR			MAUNA KEA OBSERVATORY
MOAULA 18	6407	03	KA'U	19 11	155 30	600		6A			MAUNA KEA OBSERVATORY
MOUNTAIN VIEW 91	6552	02	PUNA	19 33	155 02	1530		6A			MAUNA KEA OBSERVATORY
NAALEHU 14	6588	03	KA'U	19 04	155 25	350		8A			MAUNA KEA OBSERVATORY
NAPOOPOO 28	6697	04	S KONA	19 28	155 55	350		7A			MAUNA KEA OBSERVATORY
OOKALA 223	7131	02	N HILO	19 01	155 02	430	6A	6A			DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	19 16	155 53	1270	7A	7A			MRS LORMA TRIMAN
ORCHID LAND EST 91.5	7185	02	PUNA	19 34	155 00	445		VAR			STATE DIV OF PARKS
PAAUHAU 217	7204	01	HAMAKUA	19 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAULOU 221	7312	01	HAMAKUA	19 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	7421	03	KA'U	19 11	155 29	870		6A			DAVIES HAMAKUA SUGAR CO
PAHOA 65	7457	02	PUNA	19 31	154 58	600		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA	19 30	154 57	600		6A			GEORGE SALAZAR
PAPAIOU 144.1	7711	02	S HILO	19 47	155 06	1285		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02	S HILO	19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	8051	02	S HILO	19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULOA 107	8063	02	HAMAKUA	19 45	155 32	1511					STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	19 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	8460	04	N KONA	19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-0-HONAUNAU	8552	04	S KONA	19 25	155 55	15		8A			U S DEPT OF INTERIOR
PUU WAAWAA 94.1	8555	05	N KONA	19 47	155 51	2520					PUU WAAWAA RANCH CO
S GLENWOOD	8638	02	PUNA	19 28	155 08	2130		7A			SUSAN CAREY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKALOA SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
NOVEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP	PRECIP.	E-VAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265					MARIST BROTHERS
FALEASAC VILLAGE	4248	03	TA'U'MAN		14 14S	169 11W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P		NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			18 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139					MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CAPITOL HILL	4075	03	SAIPAN		15 13N	145 45E	672					MARINO TORWAL/G SABLAN
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60					USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47					DEPT NAT RESOURCES
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	110					FLIGHT SERVICE
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHIEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43					TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANIER EFO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in "F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:

	Soil Type	Soil Cover	Degree of Slope
Kainaliu	: Loose, Coarse	Bare	10% to NW
Kekaha 944	: Clay	Sod	0%
Kii-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Lalamilo Fld Office	: Loam	Sod	0%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be published annually as a Supplemental bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

-	No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
	No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
+	And also on an earlier date or dates.
++	Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
*	Amount included in following measurement, time distribution unknown.
‡	Extreme occurred at station with incomplete data which may have been exceeded.
A	The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
B	Adjusted to a full month.
M	One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
R	Amounts from recording gage.
T	Trace, an amount too small to measure.
V	Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

AR	Observation made after rain.
C	In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
J	"Supplemental Data" table.
MO	Gage read once monthly; usually on the last day.
OC	Gage readings at periods varying from a few weeks to several months.
S	Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
SS	Observation time is near sunset.
VAR	Observation time is variable.
WI	Gage read weekly or irregularly only.
WM	Gage read weekly and last day of month.
#	Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
\$3	Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

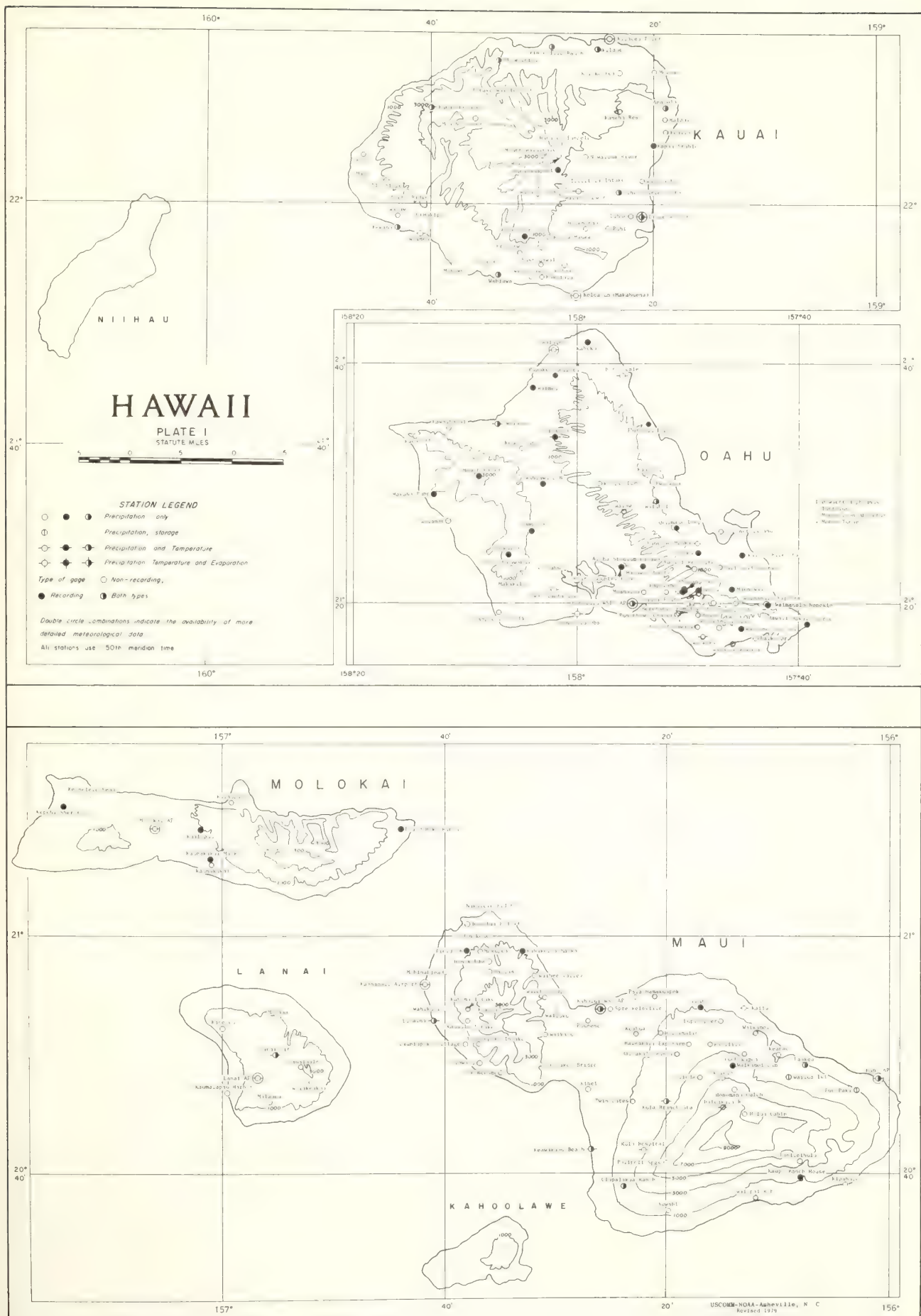
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

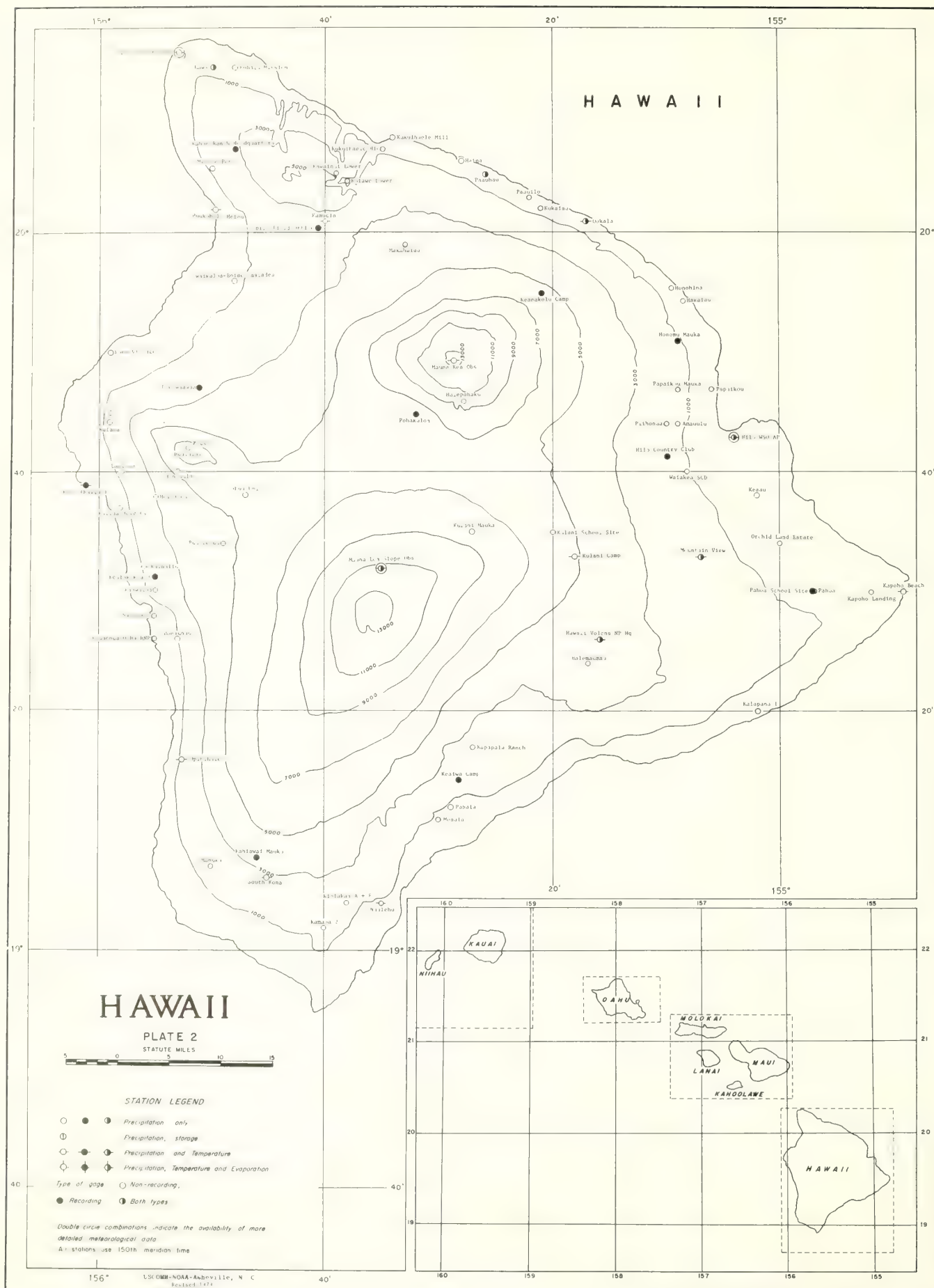
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

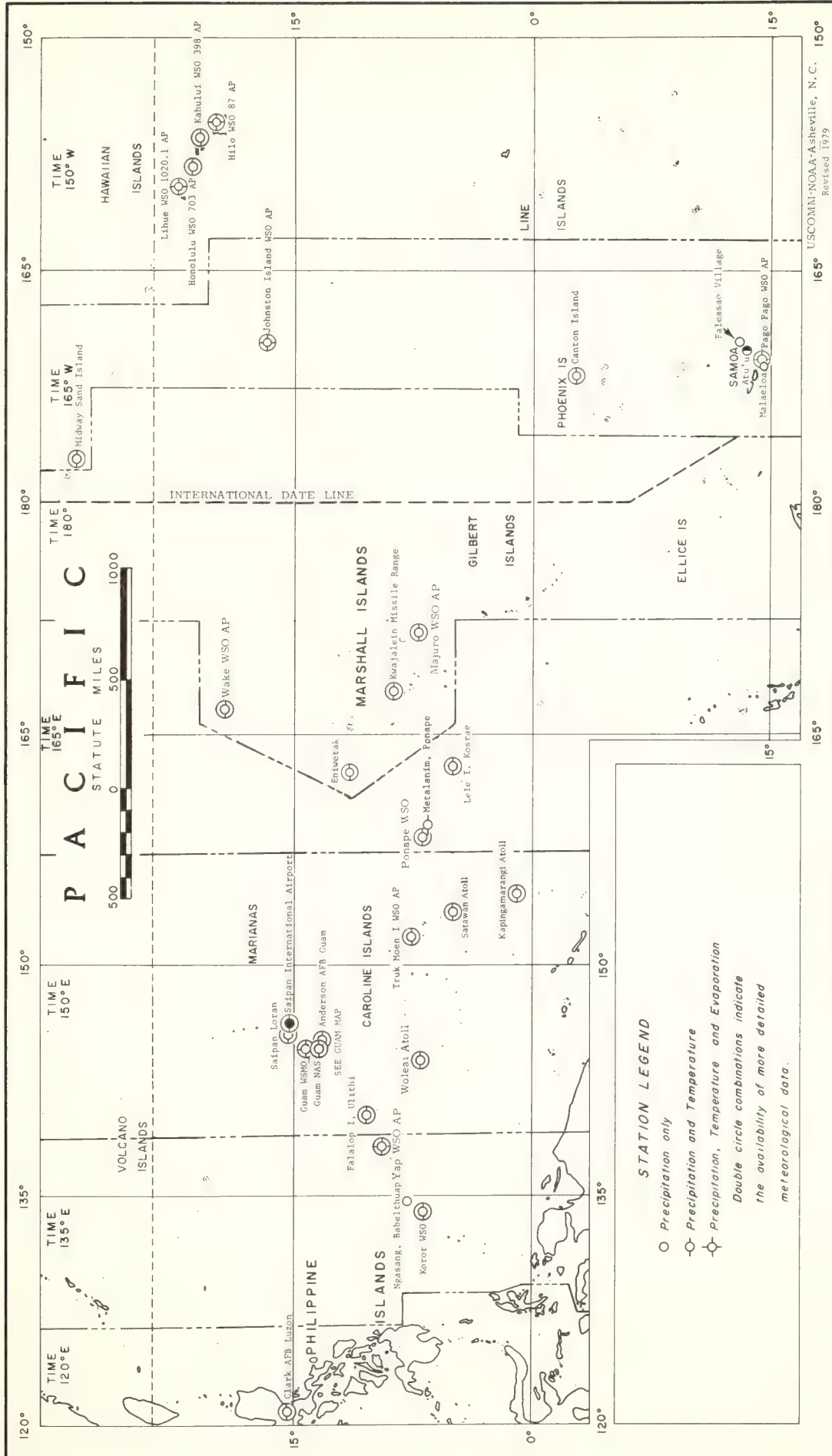
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

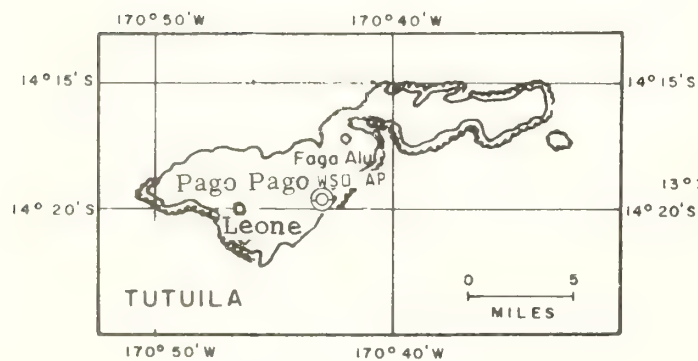
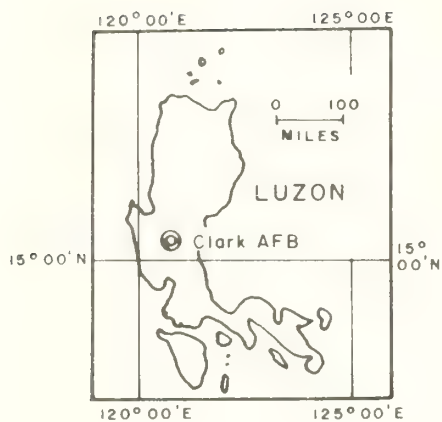
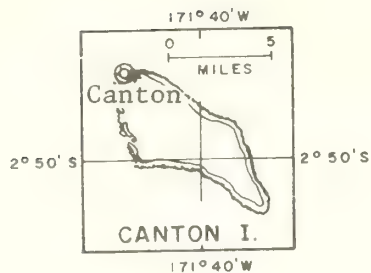
USCOMM-NOAA-ASHEVILLE, N.C. 1981-930



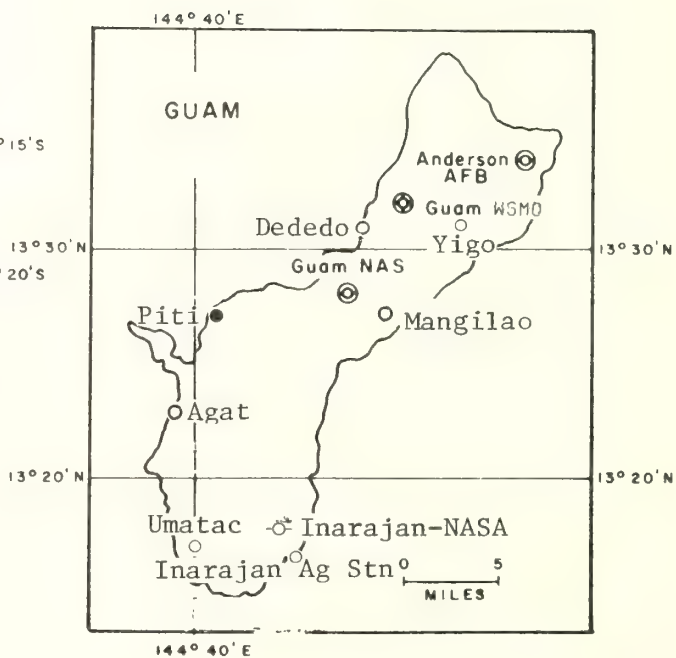
Data for non-recording stations shown on this map may be found in the publication Climatological Data.

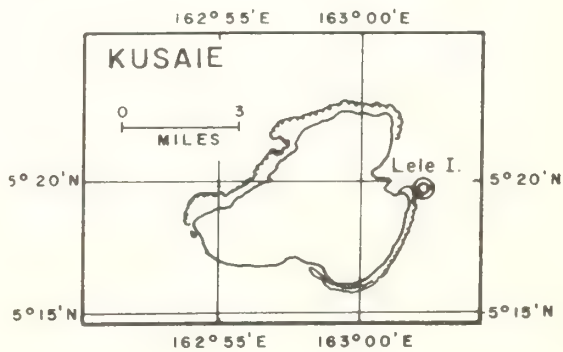
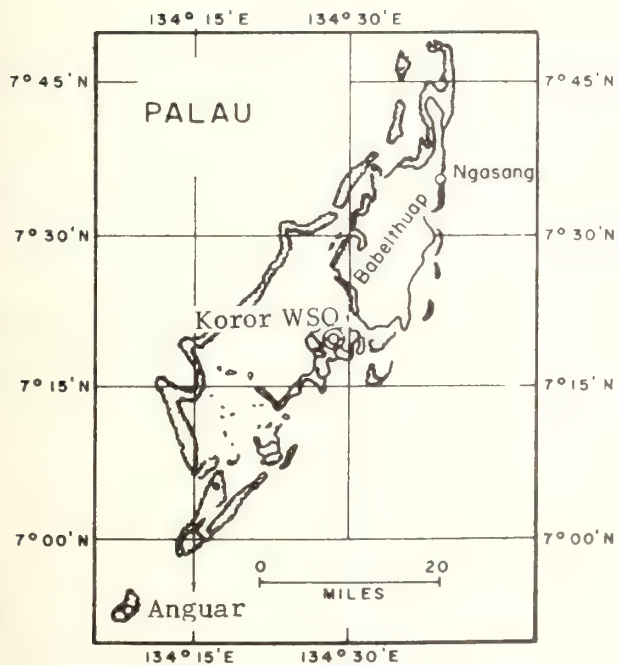
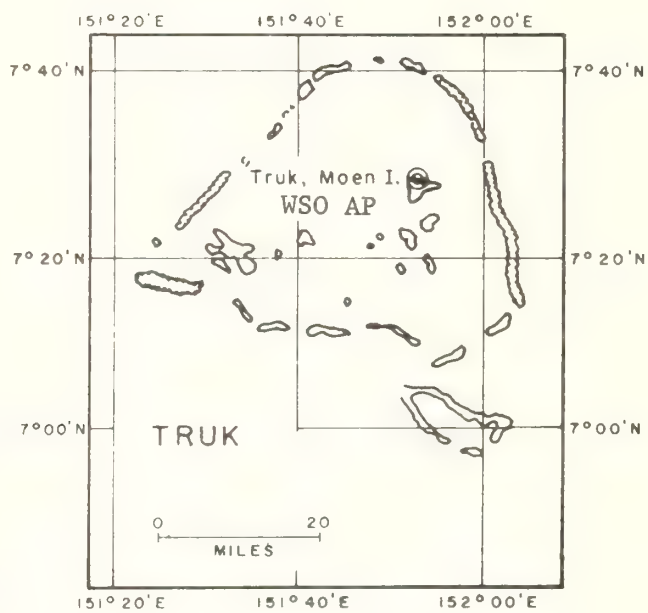
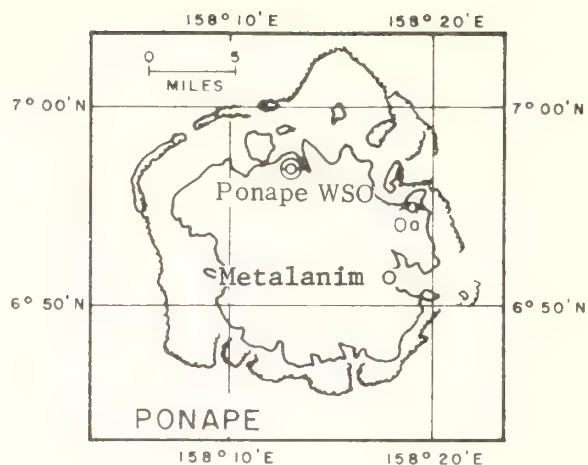
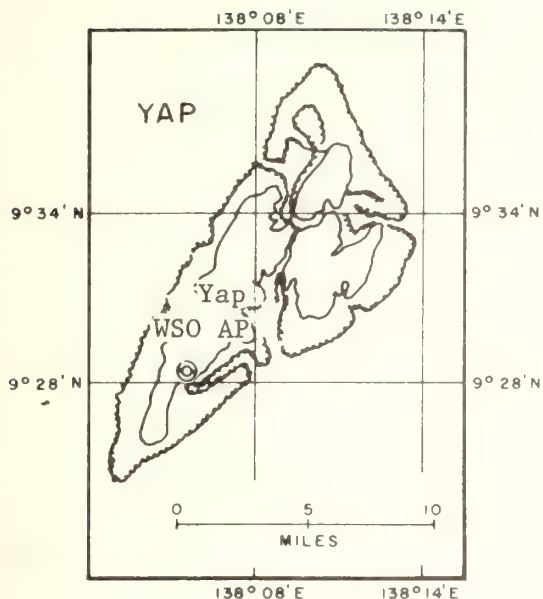




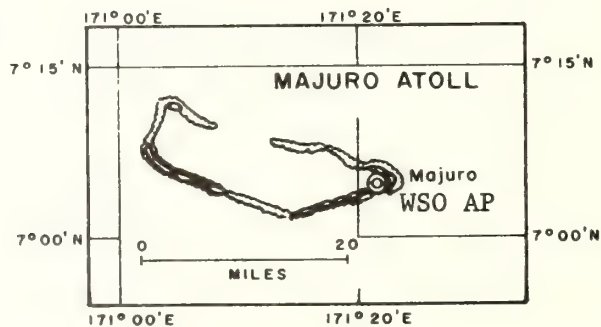
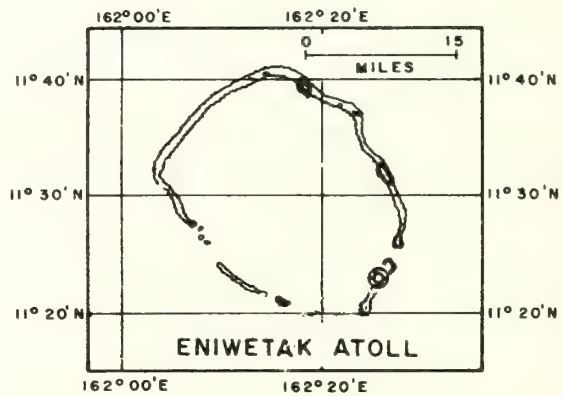
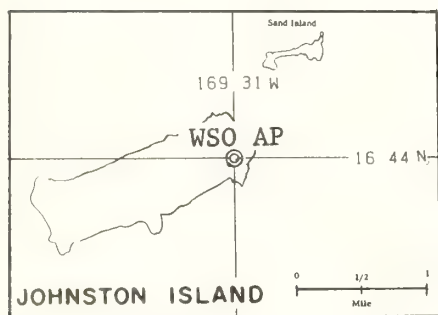
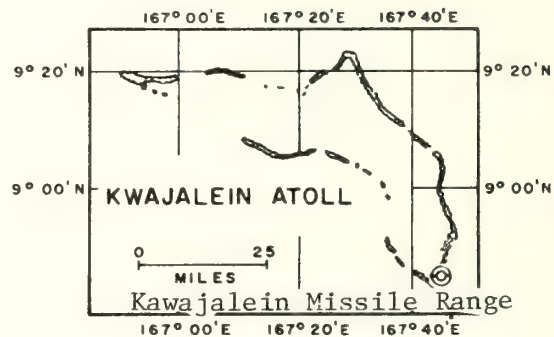
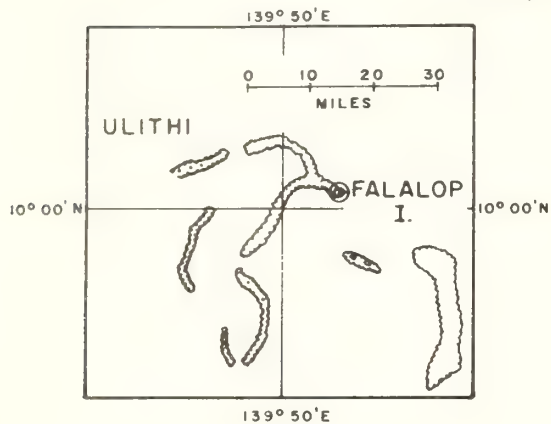
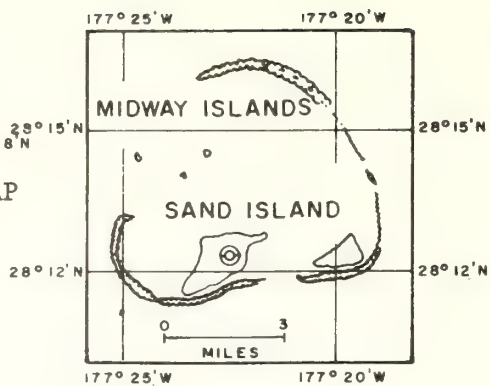
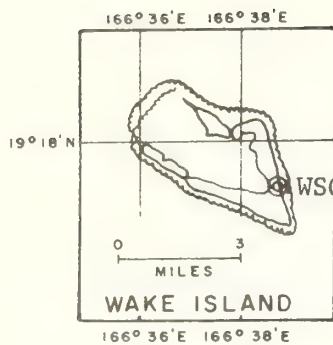


Reef





— Reef



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Climatological Data



HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	HILO WSO AP 87	HAWAII	93	DATE	14
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	32	DATE	17
GREATEST TOTAL PRECIPITATION:	KAHOMA INTAKE 374	MAUI	16.19		
LEAST TOTAL PRECIPITATION:	MAUNA KEA OBS 111.2	HAWAII	T		
GREATEST 1 DAY PRECIPITATION:	MOHIHI UPR CROSS 1083	KAUAI	6.84	DATE	13

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES - PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE TENTHS	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	10-.49	50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO				21	NE	31	-	79	80	91	0	12	10	2	1	0	25	26	8.8		
HILO WSO 87 AP	15	1.6	7.1	22++	13	21	87	75	64	85	6	5	0	0	0	0	11	70	4.2		
HONOLULU WSO 703 AP	22	3.2	7.7	22++	18	05	89	89	69	81	4	3	4	0	2	1	14	59	5.2		
JOHNSTON WSO AP	7	6.6	11.3	26++	17	04	81	81	70	78	3	3	1	0	0	0	7	73	2.7		
KAHULUI WSO 398 AP	19	3.6	8.8	-	-	-	-	78	60	74	5	4	6	0	0	0	15	60	4.3		
KOROR WSO	10	3.3	5.8	32	SE	30	91	-	80	76	1	8	6	5	4	2	26	54	8.5		
KWAJALEIN MISSILE RGN	6	14.2	14.4	22++	7	30+	79	79	71	75	6	6	4	2	1	0	19	-	7.6		
LIHUE WSO 1020.1 AP	23	5.2	9.2	30++	24	23	87	85	66	85	6	5	1	3	1	0	16	54	4.7		
MAJURO WSO AP	7	13.0	13.4	28	E	09	81	82	78	79	0	7	10	5	3	0	25	66	9.5		
PAGO PAGO WSO AP	9	2.7	8.2	20++	14	16+	89	87	73	80	2	8	5	2	4	2	23	20	7.1		
PONAPE WSO	-	-	-	16	NE	17	85	-	75	76	2	7	7	4	4	0	24	18	9.4		
TRUK, MOEN I, WSO AP	7	6.6	7.9	20	SE	06	86	-	80	82	2	7	8	5	2	4	28	18	9.7		
WAKE ISLAND WSO AP	8	5.3	9.5	31++	2	13	73	74	59	65	4	3	1	0	0	0	8	77	3.7		
YAP WSO AP	8	6.7	7.5	39	NE	14	90	-	81	78	2	10	5	1	3	3	24	44	8.2		



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

Daniel B. Mitchell DIRECTOR
NATIONAL CLIMATIC CENTER

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
DECEMBER 1980

STATION	TEMPERATURE											PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.	MIN.	TOTAL	MAX DEPTH ON GROUND					DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE		
																							32° OR BELOW	32° OR BELOW
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A														7.01									
KANAI OHULUHULU 1075		63.8	49.8	56.8		70	39	18			0	0	0	0	11.44		3.70	6		0		14	5	3
KILAUEA POINT 1133					89	2	57	15			0	0	0	0	4.09					0				
KOLOA 936	A														5.77					0				
LIHUE WSO AP 1020.1	//R	81.7	66.1	73.9	1.4	85	22+	58	18	283	0	0	0	0	4.26	- 2.08	1.73	5		0		5	4	1
MAHAULEPU 941.1															Y 8.82					0				
MANA 1026															5.27	1.21	1.68	6		0		8	4	1
N WAILUA DITCH 1051	A														10.42					0				
PH WAINIHA 1115															6.03	- 8.28				0				
PUEHU RIDGE 1040															6.90	1.23				0				
WAIHAWA 930	A														4.46	- 1.01				0				
WAIHAI LOWER 1054		78.4	59.1	68.8		80	31+	49	27	119	0	0	0	0	8.63	- 4.01	2.60	6		0		11	5	3
WAIHEA 947		83.1	67.1	75.1		87	1	60	16	320	0	0	0	0	5.28	.89	2.25	6		0		8	3	2
ISLAND			68.7												6.63					0				
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA		82.7M	66.5M	74.6M		85	31+	59	17+	306	0	0	0	0	5.53					0				
B Y U LAIE 903.1		82.6	64.4	73.5		91	9	58	18+	271	1	0	0	0	6.42		1.88	15		0		12	3	2
HONOLULU OBSERV 702.2		82.4	64.4	73.4		85	29	55	17	266	0	0	0	0	5.37		1.50	15		0		8	3	3
HONOLULU WSO AP 703	R	82.1	66.6	74.4	.7	85	28	57	17	295	0	0	0	0	7.37	3.68	3.71	14		0		7	3	3
KANE OHE MAUKA 781											0	0	0	0	1.19	- 6.60				0				
KII KAHUKU 911		81.8	66.1	74.0		89	13	60	18+	288	0	0	0	0	3.95		1.28	13		0		5	3	2
KOOLAU DAM 833	A														8.47		2.15	14		0		12	6	4
MANOA LYON ARBORETUM		81.6	63.4	72.5		86	4	57	18+	242	0	0	0	0	10.59		4.29	15		0		9	4	4
NUUANU RES 4 783															10.66	-.90	4.70	14		0		10	4	4
OPAELUA 870	A	81.4M	64.3M	72.9M	5.0	88	12+	52	18	254	0	0	0	0						0				
PALOLO VALLEY 718	R														11.80	- 2.92	5.18	14		0		11	7	3
PUU MANAWAHUA 725.6		75.1	62.6	68.9		79	11+	56	16	131	0	0	0	0	8.14		1.85	13		0		9	6	3
WAIHOLE 837	A														13.05					0				
WAIHALUA 847	A	81.4	65.4	73.4	2.3	87	23	56	18+	266	0	0	0	0	7.14	2.50				0				
WAIKIKI 717.2		84.3	66.8	75.6		88	4	56	17	335	0	0	0	0	7.52		3.30	15		0		8	4	2
WAIMANALO EXP FM 795.1		80.8	66.1	73.5		86	25+	56	17	268	0	0	0	0	13.75		4.87	15		0		11	7	4
WAIPAHU 750	A														4.60					0				
ISLAND			73.3												7.85					0				
ISLAND OF MOLOKAI																								
MOLOKAI AP 524																								
ISLAND																								
ISLAND OF LANAI																								
LANAI CITY 672	A	76.3	61.7	69.0	2.2	83	4	56	2	132	0	0	0	0	7.66	3.53				0				
ISLAND			69.0												7.66					0				
ISLAND OF MAUI																								
HALEAKALA EXP FARM 434	A	62.9	44.4	53.7	2.0	71	25	37	17		0	0	0	0	2.94		.98	15		0		6	2	0
HALEAKALA R S 338															1.49	- 7.37	.78	15		0		1	0	0
HANA AIRPORT 355		82.2M	67.0M	74.6M		86	26	62	18	305	0	0	0	0	2.30		.74	27		0		2	0	0
HONOKOHUA 493	A														3.12					0				
KAAHAPALI AP 453.1		83.0M	66.9M	75.0M		87	9	60	20	316	0	0	0	0	3.60					0				
KAHULUI WSO 398 AP	R	84.1	67.8	76.0	3.4	88	8+	58	17	347	0	0	0	0	1.37	- 1.47	.32	15		0		6	0	0
KAILUA 446		78.8M	62.8M	70.8M	1.9	83	26	59	17	189	0	0	0	0	1.83	-10.88	1.12	16		0		1	1	
KEANAE 346	A														7.00					0				
KIPAHULU 258															3.95	- 6.24	.42	28		0		15	0	0
KULA HOSPITAL 267		73.4	54.5	64.0	1.6	75	24+	48	18+	8	0	0	0	0	4.16	.55	1.29	15		0		8	3	1
LAHAINA 361		83.5	64.6	74.1	1.1	89	7	58	17	286	0	0	0	0	2.96	.10	1.16	26		0		4	3	2
PAIA 406															.93	- 3.70	.44	15		0		4	0	0
WAILUKU 386	M														2.31	- 2.34				0				0
ISLAND			69.7												2.92					0				
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HQ 54	R	70.7	51.8	61.3	2.9	76	27	44	12	2	0	0	0	0	2.45	- 9.88	.60	16		0		7	1	0
HILO WSO AP 87	A	83.8	64.6	74.2	2.6	93	14	62	19+	295	1	0	0	0	.28	-15.48	.09	15		0		0	0	0
HUEHUE 92.1																				0				
KAINALIU 73.2		78.8	61.6	70.2		82	22	58	17+	171	0	0	0	0	3.11	-.50				0				
KAPOHO BEACH 93.11		84.3	67.8	76.1		88	9	64	17+	351	0	0	0	0	4.36		1.89	16		0		9	2	1
KEAAU 92															.37		.26	16		0		1	0	0
KE-AHOLE PT 68.13		84.5	70.3	77.4		92	3	64	6	393	1	0	0	0	2.10		1.45	15		0		2	2	1
KUKUIHAELE HIC 199															1.84	- 7.33	1.50	16		0		2	1	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
DECEMBER 1980

STATION	TEMPERATURE													PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS				
									MAX.		MIN.					TOTAL	MAX DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE		
									24 OR MORE	37 OR MORE	24 OR MORE	37 OR MORE											
HAWAII																							
KULANI CAMP 79	69.4M	45.6M	57.5M		74	15	38	9	0	0	0	0	2.66		1.20	16	.0	0		10	4	1	
PAHALA 21													3.98		.70	6	.0	0				0	
PUUKOHOLA HEIAU 98.1	85.1	64.7	74.9		88	20+	61	19+	314	0	0	0	1.33		61	15	.0	0		4	0	0	
SOUTH KONA 2.31	75.0M	57.3M	66.2M		80	21+	51	17	53	0	0	0	1.22		.47	28	.0	0		4	0	0	
WATAKEA SCD 88.2													.52		.18	21	.0	0		3	0	0	
ISLAND			69.7										2.02				.0						

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC
DECEMBER 1980

STATION	TEMPERATURE													PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	HEATING DEGREE DAYS	COOLING DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE		
											32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW												
PACIFIC																										
EAST OF 180TH MERIDIAN																										
AASUFOU															18.75		7.55	15	.0	0		16	9	4		
AFUNO															17.89		8.90	15	.0	0		14	8	5		
FALCASAO VILLAGE															21.99		6.14	15	.0	0		23	12	5		
JOHNSTON IS WSO AP	R	83.8	75.5	79.7	2.1	86	22	72	25+	459	0	0	0	0	.26	- 3.13	1.16	4	.0	0		1	0	0		
MIDWAY SAND ISLAND		72.6	65.4	69.0	.5	78	7+	56	13+	138	0	0	0	0	7.17	- 2.88	1.90	8	.0	0		16	5	1		
PAGO PAGO WSO AP	R	87.4	75.8	81.6	1.6	91	31+	72	22+	523	8	0	0	0	13.44	- 1.41	3.01	15	.0	0		13	8	6		
WESTERN PACIFIC ISL. NORTH OF 12° N																										
AGAT															6.40		1.90	27	.0	0		8	5	2		
ANDERSEN AFB GUAM		84.0	77.5	80.8	1.5	86	3+	74	10+	493	0	0	0	0	6.55	-.69	1.30	9	.0	0		14	5	2		
CLARK AFB LUZON		86.4	72.1	79.3	.8	90	9+	64	25	451	5	0	0	0	.96	-.42	1.84	12	.0	0		1	1	0		
DEDEDO															9.61		1.95	27	.0	0		16	5	4		
GUAM NAS		86.4	76.3	81.4	1.2	90	25	74	9+	516	1	0	0	0	6.66	1.59	1.45	27	.0	0		12	5	2		
GUAM WSMO	R	85.2	70.8	78.0	-.5	88	26+	61	9+	412	0	0	0	0	6.14	.29	1.77	27	.0	0		13	3	1		
INARAJAN AG STN															11.05		2.61	31	.0	0		22	8	1		
INARAJAN - NASA		87.1	71.9	79.5		88	6+	64	5	460	0	0	0	0	6.61		2.28	27	.0	0		11	3	2		
MANGILAO															9.30				.0	0						
UMATAO																										
WAKE ISLAND WSO AP	R	85.5	74.8	80.2	1.6	91	31	73	24+	477	2	0	0	0	.28	- 1.45	.18	13	.0	0		1	0	0		
WAGO															9.37		2.00	28	.0	0		19	7	2		
CAROLINE AND MARSHALL ISLANDS																										
FALALOP I ULITHI ATOLL																										
KAPINGAMARANGI ATOLL	R	89.0	75.5	82.3	1.0	91	21+	72	31	543	16	0	0	0	19.95	- 7.08	4.81	31	.0	0		17	11	6		
KOROR WSO	R	87.0	78.0	82.5	.9	89	2	73	22+	551	0	0	0	0	4.27	- 4.96	1.88	22	.0	0		7	3	1		
KWAJALEIN MISSILE RGN																										
LELE I KOSRAE																										
MAJURO WSO AP	R	85.4	76.5	81.0	-.1	88	1	73	22	502	0	0	0	0	10.56	- 1.32	1.63	18	.0	0		18	8	3		
METALANIM		86.2	75.3	80.8		89	24+	72	30+	496	0	0	0	0	12.72		3.00	30+	.0	0		17	7	2		
PONAPE WSO	R	88.7	75.9	82.3	1.7	91	24+	72	30	544	13	0	0	0	10.07	- 5.88	1.62	17	.0	0		15	8	4		
SATAWAN ATOLL																										
TRUK MOEN I WSO AP	R	86.5	75.9	81.2	-.1	89	24	70	6	509	0	0	0	0	18.44	4.52	2.66	18	.0	0		19	11	6		
WOLEAI ATOLL																										
YAP WSO AP	R	86.9	74.1	80.5	-.5	89	22	71	15+	486	0	0	0	0	14.52	4.64	2.77	14	.0	0		12	7	6		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1980

DAY OF MONTH

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY PRECIPITATION

HAWAII AND PACIFIC
DECEMBER 1980

		DAY OF MONTH																														
STATION	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
PAAULI 221	A	3.25															1.58	62				20										
PAHALA 21		3.98															39	48	09			01										
PAHUA 65		2.86	09		63												1.45	05	.05													
PAPAIOU 144 1	A	1.04															11															
PAPAIOU MAUKA 140.1	A	1.74															.05															
PIIHONUA 89	A	1.20																														
PUUKOHOLA HEIAU 98.1	A	1.33																														
POU LEHUA 73	A	1.75																														
PUUHONUA-O-HONAUNAU		1.19																														
S GLENWOOD		1.70																														
SOUTH KONA 2 31		1.22																														
UPOLU POINT USCG 159 2		1.40																														
WAIKAE SCD 88.2		1.52																														
WAIKALOA-BOIS CAS 95 8		1.10																														

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1980SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
DECEMBER 1980

STATION		DAY OF MONTH																																AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	64 45	70 48	68 46	68 56	69 52	65 55	65 53	67 50	66 57	64 53	61 48	64 53	62 58	62 56	57 52	54 47	60 42	61 39	61 48	62 43	63 52	66 46	60 58	65 52	61 55	65 46	65 47	65 50	68 45	65 47	65 46	63.8 49.8	
KEKAHA 944	MAX MIN	83 65	77 63	80 62	80 70	81 67		78 66	79 67	81 69	79 66	80 66	77 66	78 70	80 71	80 66	73 59	76 59	76 59	77 59	81 61	78 63	81 65	83 71	83 74	75 61	77 60	78 62	79 61	78 72	80 62	77 62	78.8 64.8	
KILAUEA POINT 1133	MAX MIN		89 67	83 66						88 65	87 63	85 65	86 69			82 57	76 59	78 58	80 59	80 61			84 64	85 65	84 68	83 70	80 68			83 68	80 69	79 67		
LIHUE WSO AP 1020.1	MAX MIN	83 68	81 65	84 66	83 72	77 65	74 65	79 67	81 66	85 68	84 66	84 66	82 68	83 73	85 65	80 64	77 61	78 60	80 58	84 65	82 63	81 74	85 74	84 73	83 68	84 65	80 63	83 63	81 64	83 65	82 65	81 65	81.7 66.1	
WAIHI LOWER 1054	MAX MIN	80 60	80 64	78 60	80 64	80 62	72 60	76 62	78 60	78 60	80 60	80 62	78 60	78 62	76 66	80 60	76 58	76 54	74 52	78 54	76 54	78 58	80 60	80 68	80 66	80 60	78 50	80 49	80 50	78 60	80 60	80 56	78.4 59.1	
WAIMEA 947	MAX MIN	87 67	85 66	86 68	84 66	84 67	82 68	84 69	83 69	84 69	85 68	82 69	85 69	84 70	85 71	85 70	82 60	78 64	79 64	80 65	84 64	85 68	83 68	84 72	84 74	81 68	80 62	82 64	84 65	82 66	81 66	82 64	83.1 67.1	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	85 69	84 69	83 68	82 67	83 67	83 68		84 67	83 68	84 69	83 68	84 65			85 66	75 59	80 59	80 62	81 64			82 70	83 71	79 73		84 65			85 66	84 64	85 65	82.7 66.5	
B Y U LAIE 903.1	MAX MIN	84 61	84 69	84 62	83 65	84 65	76 65	78 66	84 66	91 64	84 65	84 64	83 63	83 67	83 66	86 68	75 62	76 58	78 58	79 59	80 60	83 64	84 63	85 71	86 68	85 68	86 65	78 65	81 65	85 64	84 64	86 66	82.6 64.4	
HONOLULU OBSERV 702.2	MAX MIN	84 62	84 63	84 61	82 61	84 66	83 67	84 68	83 66	84 65	84 64	83 63	84 64	84 66	83 74	77 65	79 58	79 55	79 57	80 58	84 63	81 65	83 73	82 71	82 73	83 71	83 66	82 66	82 64	85 63	82 63	82 59	82.4 64.4	
HONOLULU WSO AP 703	MAX MIN	84 62	84 67	83 61	84 65	84 68	83 69	84 70	82 68	83 67	83 66	82 64	83 69	83 76	78 70	77 64	79 60	80 57	83 59	81 66	83 70	83 74	82 73	82 74	84 68	80 64	81 69	85 67	81 64	83 65	83 63	82.1 66.6		
KANEHE MAUKA 781	MAX MIN	77						81			84					75	75	75	75	73			80						78		86			
KII-KAHUKU 911	MAX MIN	83 65	83 66	82 65	84 65	82 67	77 66	82 66	82 67	83 66	82 65	82 65	86 67	89 73	80 71	74 68	74 60	78 60	79 60	82 66	79 66	86 71	87 70	85 72	85 72	86 65	86 65	80 65	81 66	81 65	82 65	82 64	81.8 66.1	
MANOA LYON ARBORETUM	MAX MIN	84 61	84 61	85 60	86 60	84 64	80 64	84 65	82 65	85 65	84 63	85 61	84 63	79 67	83 72	73 62	74 61	75 57	82 57	81 58	82 63	82 63	78 70	79 69	75 69	77 70	85 63	84 63	83 64	85 63	84 60	82 60	81.6 63.4	
OPAELA 870	MAX MIN	85 60	85 65	85 60	88 65	87 65	76 67	82 68	88 65	88 65	88 67	78 66	88 66	74 67	80 62	85 65	82 56	75 52	74 52	80 65	77 65	79 72	80 70	80 69	80 65	77 64	82 62	79 63	82 63	79 66	82 62	80 64	81.4 64.3	
PUU MANAWAHUA 725.6	MAX MIN	79 65	77 60	77 64	77 62	77 64	78 64	78 63	78 62	76 62	77 62	79 63	74 66	72 68	70 61	72 57	71 56	72 57	74 57	76 56	73 64	72 67	73 64	72 67	72 66	73 61	72 65	76 61	77 62	76 65	77 63	75.1 62.7		
WAIALUA 847	MAX MIN	82 60	85 66	85 61	82 64	86 71	80 66	72 70	82 63	83 65	83 64	86 63	84 63	84 69	86 72	76 63	74 56	80 56	81 64	82 66	80 66	82 74	87 71	80 71	80 65	80 64	76 65	76 64	80 64	81 63	82 63	82 64	81.4 65.4	
WAIKIKI 717.2	MAX MIN	86 67	86 62	86 62	86 67	86 74	84 76	85 68	87 67	87 67	86 65	85 64	85 68	85 69	85 74	83 64	78 58	79 56	82 59	82 65	83 65	83 68	84 74	84 72	82 73	85 73	84 71	85 66	85 67	84 64	84 65	84 62	84.3 66.8	
WAIMANALO EXP FM 795.1	MAX MIN	82 62	82 62	83 62	82 63	82 63	80 59	78 68	80 66	81 67	83 64	83 62	83 66	82 76	80 64	78 70	78 64	77 56	77 57	80 60	81 67	81 75	79 75	79 73	86 77	86 72	81 65	81 66	79 66	79 65	81 66	81 66	80.8 66.1	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN																																	
LANAI CITY 672	MAX MIN	81 60	82 56	82 59	83 61	78 63	72 62	76 63	78 61	80 60	80 61	78 61	78 61	77 65	72 66	76 61	71 58	72 58	78 59	74 63	77 61	72 62	72 68	74 66	74 66	71 58	77 63	74 62	76 64	77 62	77 63	77 61	76.3 61.7	
ISLAND OF MAUI																																		
HALEAKALA R S 338	MAX MIN	60 43	62 40	61 39	62 40	65 43	65 48	65 45	64 45	65 45	66 41	64 40	63 42	69 45	69 45	66 49	56 38	58 37	59 42	61 43	62 46	60 50	64 52	61 48	64 46	71 53	65 47	61 43	62 44	61 45	59 45	60 43	62.9 44.4	
HANA AIRPORT 355	MAX MIN	84 64	84 64	83 66	84 75	83 73	84 68	81 70	83 69	82 69	83 67	82 66	82 65	83 64	84 71	82 69	78 64	76 63	76 62	80 66	81 67	85 66	85 66	83 67	84 66		86 65	77 65	83 68	83 68	82 67	82 64	82.2 67.0	
KAANAPALI AP 453.1	MAX MIN	85 65	83 64	85 64	84 64	83 70	84 71	84 70	86 68	87 66	84 67	84 65	83 67	84 70	84 66	83 66	80 66	77 64	80 63	83 64	83 65	82 72	81 73	82 75		82 68	82 66	82 66	81 68	83 66	83 67	84 63	83.0 66.9	
KAHULUI WSO 398 AP	MAX MIN	86 64	85 62	87 59	87 61	87 67	83 72	88 69	88 68	86 65	87 65	83 65	86 65	86 75	84 77	82 71	79 67	80 58	82 62	87 69	86 64	83 68	81 78	83 77	84 77	79 74	80 68	84 73	82 67	84 67	84 64	83 64	84.1 67.8	
KAILUA 446	MAX MIN	79 62	80 62	79 63	79 62	78 64	80 62	76 63	77 62	78 63	80 63	78 62	78 64	79 62	82 63	77 60	78 62	76 59	76 60	77 62	80 61	79 61	80 66	83 65	81 64	79 66	82 65	82 64	77 66	76 65	77 63	78.8 62.8		
KEAHAKAPU BEACH 260.2	MAX MIN	84 65	83 62	83 62	87 64	85 69	85 71	86 69	85 67	86 65	84 65	84 65	85 64	84 65	84 71	81 67	80 67	80 61													84 67	83 64		
KULA BRANCH STN 324.5	MAX MIN	75 55	73 57	75 58	76 55	76 55	76 55	77 57	74 55	74 54	74 54	75 55	75 54	75 55	58 57	57 54	68 53	69 57	69 54	71 56	69 56	73 60	76 57	74 60	75 61	70 54	73 54	69 56	68 58	71 56	71 55	75 54	73.0 56.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
DECEMBER 1980

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KULA HOSPITAL 267	MAX MIN	75 55	75 56	75 54	75 56	75 53	75 54	74 54	75 56	75 55	73 54	74 54	74 55	75 54	75 56	75 58	74 57	73 48	70 48	73 54	67 57	73 55	75 55	73 52	75 56	73 56	70 53	70 53	73 56	73 56	72 54	71 54	73.4 54.5
LAHAINA 361	MAX MIN	82 62	86 61	87 60	87 61	82 64	84 67	89 68	88 68	88 63	87 63	88 64	81 63	82 70	87 71	83 64	80 64	84 58	86 60	77 66	80 60	85 63	81 73	85 71	79 72	72 68	80 62	81 64	85 65	86 66	86 59	81 63	83.5 64.6
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	73 47	74 49	73 50	71 49	72 55	72 56	73 48	72 47	72 48	73 49	69 46	72 44	71 56	66 55	74 58	69 56	64 45	67 51	70 57	64 50	73 55	64 55	71 55	70 56	69 56	72 52	76 49	74 57	72 54	69 51	71 49	70.7 51.8
HILL WSO AP 87	MAX MIN	81 64	83 64	83 63	83 65	84 65	85 66	84 64	84 63	85 63	83 65	84 63	87 62	85 65	93 63	80 66	76 69	79 62	83 64	84 62	80 67	86 65	89 66	84 63	87 64	87 64	83 66	83 65	85 66	82 68	82 65	83 66	83.8 64.6
KAINALU 73.2	MAX MIN	81 60	79 63	80 62	80 60	80 64	79 64	79 62	80 60	79 61	78 60	78 61	78 58	79 62	78 61	81 66	76 59	76 58	76 59	78 64	80 61	80 66	79 64	80 62	80 61	80 61	80 61	78 66	81 62	80 61	79 62	78.8 61.6	
KAPOHO BEACH 93.11	MAX MIN	87 64	87 65	87 66	86 68	84 72	85 72	87 65	87 65	88 65	84 69	84 65	86 64	85 65	85 70	84 71	79 67	75 64	82 65	85 66	84 69	83 69	83 72	84 73	82 71	84 70	86 67	86 69	86 68	82 65	83 68	83 65	84.3 67.8
KE AHOLE PT 68.13	MAX MIN	85 69	89 79	92 75	85 68	88 69	84 64	83 72	87 71	86 70	87 69	87 70	85 68	84 77	82 70	82 71	80 69	83 65	80 65	82 70	84 67	80 69	83 75	83 71	84 71	84 71	86 71	86 70	87 70	86 70	85 70	83 72	84.5 70.3
KULANI CAMP 79	MAX MIN	68 47	69 42	69 46	69 40	66 46	71 53	71 58	69 56	71 38	70 41	70 43	70 40	69 41	67 42	74 45	72 52	63 41	63 41	68 42	70 48	72 49	70 47	71 46	72 45	71 45	72 45	70 47	70 45	68 45	69 45	69.4 45.6	
LALAMILO FLD 0 191.1	MAX MIN	81 40	81 38	81 39	80 34	80 37	77 37	80 39	78 41	78 40	78 41	78 40	77 35	79 41	78 39	78 39	67 49	76 38	78 44	78 47	77 47	79 55	81 55	76 50	74 46	77 46	76 46	79 49	78 49	76 53	74 39	78 39	77.7 43.4
MAUNA LOA SLOPE OBS	MAX MIN	52 35	55 36	53 35	53 36	53 39	52 37	54 35	54 35	56 36	54 37	56 38	58 39	62 41	59 39	57 36	44 34	50 32	50 34	56 34	50 38	53 38	60 39	59 40	59 39	57 43	55 43	55 43	55 39	53 39	54 39	52 39	54.3 37.6
MOUNTAIN VIEW 91	MAX MIN	81 57	81 57	80 58	77 58	77 61	78 63	78 58	80 58	80 59	82 60	75 58	81 57	80 61	82 58	84 58	77 63	70 56	75 55	77 57	81 60	80 63	81 60	87 61	83 60	83 60	84 60	84 59	81 63	84 59	79 60	80 59	80.0 59.2
NAALEHU 14	MAX MIN	81 61	83 61	80 64	80 68	81 69	80 68	78 67	80 66	80 65	82 67	79 64	79 64	80 68	81 65	84 64	79 66	76 60	77 60	79 64	84 67	89 67	88 65	80 65	82 65	77 65	85 67	82 63	83 66	80 68	83 63	83 63	81.1 65.0
OOKALA 223	MAX MIN	80 65	81 63	80 65	79 64	80 63	81 67	84 66	79 67	80 66	80 68	80 67	80 64	79 63	82 67	81 66	77 65	70 62	75 69	79 66	80 68	79 67	80 67	81 68	81 68	80 67	84 67	82 66	78 67	80 67	80 67	80 66	79.6 65.9
OPIHIHALE 2 24.1	MAX MIN	81 63	81 58	81 56	81 60	82 63	75 65	78 60	81 61	80 59	81 60	81 58	80 60	84 60	84 62	77 60	76 57	77 56	79 61	84 61	81 61	85 61	81 60	81 59	78 61	80 61	80 59	82 62	80 59	79 59	78 61	79 58	80.2 60.0
POUKOHOLA HEIAU 98.1	MAX MIN	85 65	85 63	85 64	85 65	87 65	88 69	83 65	86 65	85 67	86 66	83 66	86 64	84 66	86 65	86 64	80 65	84 61	84 61	84 61	88 62	84 66	86 65	85 69	86 61	86 64	86 65	85 66	85 65	84 64	85 66	85 64	85.1 64.7
SOUTH KONA 2.31	MAX MIN	78 54	79 55	80 54	79 59	80 59	75 62	76 60	75 55	75 59	79 58	74 56	70 57	77 61	74 57	76 62	76 55	72 51	68 54	80 63	80 63	73 63	71 55	73 55	67 56	75 55	75 54	77 59	71 61	71 55	75 55	75.0 57.3	
UPOLU POINT USCG 159.2	MAX MIN	80 74	82 69	88 73	87 65	86 70	85 73	85 69	84 69	85 68	85 73	85 69	84 63	83 69	85 70	82 71	79 67	80 65	80 66	84 69	84 71	85 69	84 72	82 72	84 70	84 74	84 73	84 70	83 70	80 69	83 69	83 70	83.5 69.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY TEMPERATURES

HAWAII AND PACIFIC
DECEMBER 1980

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	MAX MIN	85 75	85 75	84 76	84 75	84 77	84 75	85 77	85 75	85 77	85 78	85 77	84 76	84 77	82 76	81 75	83 75	83 75	84 75	83 75	82 73	83 75	86 75	83 75	84 72	83 72	84 75	83 77	84 76	83 76	84 76	83 77	83.8 75.5	
MIDWAY SAND ISLAND	MAX MIN	78 70	71 68	75 58	68 64	67 62	71 65	78 70	75 68	74 67	75 70	75 67	70 56	66 56	67 62	73 59	73 63	72 66	72 67	73 62	75 69	74 68	72 68	71 65	69 64	72 65	74 69	73 68	75 68	74 63	74 71	74 70	72.6 65.4	
PAGO PAGO WSO AP	MAX MIN	90 78	88 80	85 77	82 73	86 74	88 76	87 75	86 75	88 73	89 76	90 75	88 74	84 75	82 77	81 74	84 77	85 77	86 79	88 78	87 74	88 72	88 72	88 74	90 75	89 75	89 74	91 74	90 76	91 82	91 82	87 78	87.4 75.8	
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	85 79	86 80	86 79	85 76	85 79	85 77	85 77	84 74	85 76	84 74	85 78	85 79	84 77	84 78	84 79	83 77	81 77	84 79	83 79	84 77	82 78	84 78	84 76	84 78	84 76	84 78	81 77	84 75	84 79	83 78	82 78	84.0 77.5	
CLARK AFB LUZON	MAX MIN	84 75	88 77	90 73	90 73	88 75	90 77	88 75	90 73	90 73	88 72	86 73	88 73	88 73	84 73	86 73	86 73	88 73	88 73	88 73	86 72	86 70	84 72	84 72	82 68	82 64	84 68	86 68	82 68	84 70	84 70	84 70	86.4 72.1	
GUAM NAS	MAX MIN	85 76	89 76	89 78	87 77	87 77	87 74	85 75	85 74	85 74	88 75	87 77	80 76	85 76	85 75	87 77	87 77	83 75	86 79	87 76	86 77	86 77	88 77	87 76	87 77	87 77	90 77	88 77	83 76	89 76	87 78	86 76	86.4 76.3	
GUAM WSMO	MAX MIN	86 74	85 76	85 72	85 73	85 70	85 68	85 68	86 61	83 61	86 66	85 67	85 62	85 71	85 72	85 74	87 73	81 72	85 75	85 71	85 74	85 75	88 72	86 69	87 72	88 69	88 71	88 74	81 71	86 70	85 70	83 72	85.2 70.8	
INARAJAN - NASA	MAX MIN	88 71	88 70	88 65	88 65	88 64	88 78	86 77	87 78	87 79	87 72	87 74	87 72	86 72	87 71	87 71	87 71	87 70	87 70	87 70	87 70	87 70	87 74	87 73	86 75	87 72	87 75	87 73	87 72	87 72	87 72	87 72	87.1 71.9	
WAKE ISLAND WSO AP	MAX MIN	87 77	86 76	85 74	83 75	83 75	84 73	86 74	85 73	86 75	86 74	86 74	85 75	82 74	83 75	84 75	86 74	85 73	86 73	85 74	85 75	85 75	86 77	85 76	85 73	86 76	86 77	85 76	86 75	90 75	87 78	91 74	85.5 74.8	
CAROLINE AND MARSHALL ISLANDS																																		
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	91 77	91 75	90 73	91 74	87 73	91 76	91 76	91 76	91 77	91 75	90 73	89 74	86 74	78 73	89 75	88 77	90 79	91 79	91 79	91 78	89 77	91 76	90 77	89 76	89 76	90 77	89 76	86 74	89 74	89 75	88 76	82 72	89.0 75.5
KWAJALEIN MISSILE RGN	MAX MIN	87 80	89 80	88 79	88 79	88 77	87 78	88 79	87 77	87 76	88 79	87 78	88 78	87 80	88 80	88 80	87 78	87 79	85 73	87 80	87 79	88 78	83 73	86 76	87 79	88 80	87 80	87 80	87 75	86 80	87 76	85 75	87.0 78.0	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	88 75	86 75	85 78	86 76	85 76	85 75	86 77	87 79	84 75	85 75	85 79	86 79	85 79	85 77	86 78	85 75	86 76	81 74	84 75	86 76	86 75	83 73	84 75	86 77	86 77	86 77	85 77	86 78	86 79	87 78	85 76	85.4 76.5	
METALANIM	MAX MIN	86 75	88 74	87 80	89 78	86 73	88 75	86 73	87 79	86 74	85 73	86 77	86 79	87 80	87 77	86 76	84 74	88 74	80 74	80 75	88 76	85 76	88 75	89 75	89 75	88 75	86 77	86 74	85 75	85 72	85 72	85 73	86.2 75.3	
PONAPE WSO	MAX MIN	84 76	91 77	89 79	89 75	90 73	91 74	89 73	91 76	91 74	87 74	89 78	88 78	87 80	91 77	90 78	82 79	89 75	90 74	90 76	89 74	90 74	88 78	91 75	91 75	89 75	87 75	89 78	88 77	89 79	82 72	90 75	88.7 75.9	
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	86 71	88 74	88 76	88 78	88 74	88 70	87 71	86 73	88 78	86 77	86 78	88 76	86 75	88 81	85 74	87 76	87 76	79 75	88 75	88 79	86 78	87 80	83 75	89 79	88 77	85 77	87 77	87 78	86 77	84 73	86 76	85 75	86.5 75.9
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	86 74	87 71	88 75	87 74	88 75	88 74	88 78	88 74	87 72	88 73	88 76	85 74	84 71	81 71	87 71	86 75	87 77	88 78	87 79	87 75	87 72	89 74	88 74	88 74	87 73	88 74	88 72	87 75	88 73	85 73	83 73	86.9 74.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
DECEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KEKAHA 944	4	MAX	80	79	84	79	79	-	-	78	79	79	80	79	79	79	80	76	76	74	79	75	75	78	80	80	78	78	77	81	78	77	77	78.4 72.6
		MIN	75	73	73	72	69			70	74	74	79	74	76	75	74	71	70	69	68	70	70	73	76	75	74	72	72	72	71	72		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
DECEMBER 1980

STATION	DEPTH (IN)	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KII-KAHUKU 911	4	MAX MIN	76 72	77 74	76 72	75 71	74 72	74 71	75 72	74 71	75 71	75 71	75 71	76 71	74 71	75 73	73 70	72 68	71 67	72 67	73 69	73 71	74 70	75 73	76 74	76 72	76 73	75 73	74 71	74 70	74 72	73 72	74 71	74.4 71.2
MANOA LYON ARBORETUM	4	MAX MIN	76 73	75 73	76 72	74 72	74 72	73 72	75 73	74 72	74 73	73 72	73 72	73 72	74 73	74 72	72 71	71 69	72 70	71 69	72 69	72 70	73 72	74 73	74 73	73 73	75 73	74 72	74 72	73 72	74 72	73 72	74 71	73.5 71.8
HAIALUA 847	4	MAX MIN	- 68	82 68	82 68	82 67	82 75	- 75	- 75	- 79	79 68	78 68	77 66	78 67	- 67	- 67	- 66	74 66	71 61	71 61	72 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61	- 61

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

MAUI ISLAND
DECEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
KILA BRANCH STN 324 5	4	MAX MIN	67 64	67 64	65 62	66 63	66 64	- -	- -	72 -	67 64	66 62	66 63	66 63	- -	- -	65 62	65 64	65 61	64 61	65 62	- -	- -	65 62	65 63	65 63	- -	66 63	- -	- -	66 63	66 63	66 63	66 62	66.0 -

SEE REFERENCE NOTES FOLLOWING STATION INDEX

DAILY SOIL TEMPERATURES

HAWAII
DECEMBER 1980

STATION	DEPTH	TIME	DAY OF MONTH																															AVERAGE
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KAINALIU 73.2	(IN)	4 MAX	79	79	80	78	77	-	-	75	74	76	77	74	-	-	74	73	74	79	74	-	-	-	-	-	-	-	-	-	77	76	76	-
		MIN	74	74	72	74	73	-	-	71	71	72	72	72	-	-	72	69	69	69	69	-	-	-	-	-	-	-	-	71	72	71	-	
LALAMILO FLD 0 191.1	(IN)	4 MAX	71	71	71	70	71			70	70	70	70	68	-	-	68	68	70	69	69	-	-	-	70	70			-	-	71	70	72	-
		MIN	65	66	64	69	65			64	65	64	65	62	-	-	63	65	64	64	63	-	-	-	64	64			-	-	65	67	65	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
DECEMBER 1980

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LINCOLN WSO AP 1020 1	EVAP	.15	.18	.12	.22	.37	.40	.12	.07	.03	.27	.15	.28	.22	.31	.19	.17	.04	.26	.40	.32	.15	.19	.17	.24	.03	.26	.30	.18	.00	.22	.06	6.07
	WIND	77	60	80	93	203	63	69	73	73	104	93	99	181	221	91	68	81	76	84	94	111	186	129	224	94	66	68	73	65	74	59	3132
	MAX	87	90	85	86	84	72	76	82	88	89	85	86	83	81	85	79	78	82	81	85	85	77	83	85	83	85	85	84	84	87	83	83.4
	MIN	63	62	65	64	68	69	69	68	66	62	67	66	64	69	64	59	60	62	55	63	69	69	65	70	66	67	60	58	59	63	62	64.3
ISLAND OF OAHU																																	
HONOLULU OBSERV 702 2	EVAP	.22	.30	.30	.30	.17	.12	.08	.20	.15	.15	.15	.21	.22	.00	.16	.15	.09	.15	.22	.19	.09	.14	.11	.08	.15	.12	.09	.25	.16	.13	5.00	
	WIND	23	21	16	26	61	21	13	26	10	13	10	10	73	96	21	21	18	15	12	13	47	61	37	67	48	19	14	11	18	13	17	871
	MAX	86	89	88	86	83	76	86	86	88	88	87	85	86	84	84	76	79	81	83	84	82	82	82	83	84	85	85	86	86	87	82	84.2
	MIN	62	64	60	59	62	66	66	65	64	63	63	62	65	69	65	63	54	53	56	67	64	69	62	71	70	63	64	66	63	61	61	63.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

EVAPORATION AND WIND

HAWAII AND PACIFIC
DECEMBER 1980

STATION	DAY OF MONTH																															TOTAL 104 AVG	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
*** EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	25	32	27	36	28	25	26	26	27	■	59	29	30	28	40	24	31	30	18	44	06	15	21	23	19	24	26	24	27	25	5	8.20
	WIND	101	103	154	261	177	123	154	127	106	■	224	99	174	153	194	130	105	111	55	75	66	45	70	71	89	94	68	89	94	80	96	3488
PAGO PAGO WSO AP	EVAP	34	31	17	-	-	14	15	-	27	27	25	02	-	-	24	61	35	24	30	21	18	25	36	21	40	03	22	21	33	7.708		
	WIND	115	98	81	■	144	26	30	38	46	50	35	37	27	46	125	182	142	141	150	84	68	40	29	34	33	35	52	79	103	97	122	2289
	MAX	94	86	81	■	90	86	90	90	-	91	99	94	93	85	84	-	92	93	90	94	92	99	99	100	100	96	101	100	100	100	100	94.3
	MIN	75	75		72	72	73	71	74	-	75	73	75	74	74	74	70	75	82	72	72	71	70	71	71	70	74	74	75	71	71	71	73.1
*** WESTERN PACIFIC ISL, NORTH OF 12 N																																	
GUAM WSMO	EVAP	29	27	16	28	25	18	17	19	00	31	27	20	02	23	33	22	09	23	52	22	14	10	15	12	10	18	34	11	17	20	6.208	
	WIND	117	136	117	116	102	47	88	16	20	26	64	99	128	110	124	106	94	118	75	110	48	22	36	22	16	42	69	61	62	68	105	2364
	MAX	90	86	88	88	88	86	87	91	85	90	90	85	85	88	86	83	78	85	85	81	88	88	89	85	86	88	82	86	88	84	79	86.1
	MIN	72	71	71	70	71	65	70	66	66	68	67	68	70	70	70	69	72	70	69	72	71	72	70	70	68	70	71	70	71	67	68	69.5
*** CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP	22	42	06	19	18	28	20	12	22	21	14	12	11	-	17	38	18	22	20	24	06	16	17	24	21	19	05	17	19	18	13	5.558
	WIND	74	42	73	56	52	89	73	18	37	37	51	64	69	113	165	109	86	76	76	61	38	24	29	25	44	55	37	50	49	79	59	1912
	MAX	85	86	91	87	91	91	94	92	94	91	87	86	79	77	84	87	89	91	88	92	91	95	93	94	92	92	93	89	83	79	76	88.4
	MIN	73	73	72	72	71	72	72	74	74	73	72	70	71	70	70	70	72	73	71	71	73	73	73	73	72	73	72	71	67	68	68	71.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA		21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAW		22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA		21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA		21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA		21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAW		22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAOH 1006	A 1038	02	LIHUE		21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI		22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAW		22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAI MEA		21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE		22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAI MEA		22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAW		22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAW		22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAW		22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAI MEA		21 58	159 43	9	8A	8A		CG	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI		22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI		22 14	159 24	180	7A	7A			NOREEN Q BAUTISTA
KOLO 1033	4735	03	WAI MEA		22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA		21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA MAUKA 994	A 4750	02	KOLOA		21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KOLOKO RES 1137	A 4758	01	KAWAIIHAW		22 11	159 23	560		7A			PRAWNS OF HAWAII INC
KUKUIULA 935	A 4950	02	KOLOA		21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE		22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE		21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE		21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAHAULEPU 941.1	5710	02	KOLOA		21 54	159 25	80		9A			MC BRYDE SUGAR CO
MAKAWELI 965	A 5864	03	WAI MEA		21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAI MEA		22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAI MEA		22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAW		22 11	159 20	330		8A			THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R 6565	03	WAI MEA		22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAI MEA		22 02	159 44	1250		6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE		22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE		22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI		22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI		22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAI MEA		22 01	159 42	1600		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE		21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA		21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIKAI LOWER 1054	8958	02	LIHUE		22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIKAI UPPER 1052	8966	02	LIHUE		22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIKAI 943	9253	03	WAI MEA		21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE		22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAI MEA 947	9629	03	WAI MEA		21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA		21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		21 26	157 51	320					DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU		21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU		21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		21 39	157 56	20	8A	8A			B Y U (HAWAII CAMPUS)
CAMPBELL IND PK 702.5	0248	02	OAHU		21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA		21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA		21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU		21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU		21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA		21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA		21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO AP 703	# 1919	02	HONOLULU		21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA		21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA		21 31	157 54	800		WI			WAIKOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA		21 42	157 59	15				C	KUILIMA HYATT R HOTEL

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ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO		21 24	157 45	10					KAILUA FIRE STATION BOARD OF WTR SUPPLY HAWAII STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO INC WAIALUA SUGAR CO INC JEFF WALLACE US ARMY SCHOFIELD BRKS HON BOTANIC GARDENS CAPITAL INVESTMENT CO
KALIHI RES SITE 777	R 2960	02	HONOLULU		21 23	157 50	910					
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO		21 25	157 49	190	8A	MID			
KAPALAMA 773	A 3268	02	HONOLULU		21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA		21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA		21 33	158 05	725		7A			
KII-KAHUKU 911	4500	01	AHU		21 41	157 58	15	8A	8A		G	
KOOLAU DAM 833	A 4766	05	WAIHAWA		21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO		21 24	157 49	280					
MAKAHA PUMP 800.2	5782	04	OAHU		21 29	158 12	400					
MAKAKILO 730.1	5789	03	OAHU		21 21	158 06	300		6A			NEAL ADAMS CHARLES COOKE LYON ARBORETUM BOARD OF WTR SUPPLY EXP STN H S P A JOHN A ROXBURGH FAA BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO INC
MANOA 712.1	6122	02	HONOLULU		21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU		21 20	157 48	500	8A	8A		G	
MANOA TUNNEL 2 716	R 6130	02	HONOLULU		21 20	157 48	650		MID			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		21 21	157 46	395					
MOANALUA 770	6395	02	HONOLULU		21 21	157 54	20		9A			
MOUNT KAALA 844	6553	04	WAIANAE		21 31	158 09	4025					
NUUANU RES 4 783	6928	02	HONOLULU		21 21	157 49	1048		MID			
NUUANU RESERV 5 775	A 6933	02	HONOLULU		21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA		21 34	158 02	1060	7A				
PAIKO DR 723.4	7540	02	HONOLULU		21 17	157 44	10		6P			D L GRUBB CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY PEARL COUNTRY CLB OF HA NATL WEATHER SERVICE NAT MEM CEMETERY JOHN W VOLLRATH RICHARD FEINER ROBERT E WHITE
PALI GOLF COURSE 788.1	7656	01	OAHU		21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU		21 20	157 46	995		MID			
PAUOA FLATS 784	R 7810	02	HONOLULU		21 21	157 48	1640		MID			
PEARL COUNTRY CL 760.2	7942	03	OAHU		21 23	157 56	120					
PUNALUU PUMP 905.2	8314	01	KOOLAULO		21 35	157 54	20					
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU		21 19	157 51	360		8A			
PUPUEKA HEIGHTS 896.4	8342	01	WAIALUA		21 38	158 02	750					
PUU MANAWAHUA 725.6	8500	03	OAHU		21 23	158 06	1690	8A	8A			
TANTALUS 2 780.5	8738	02	HONOLULU		21 20	157 50	1330		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU		21 18	157 49	79		8A			UNIVERSITY OF HAWAII WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD WAIALAE COUNTRY CLUB WAIALUA SUGAR CO INC BEN MAYES WAIHOLE WATER CO LTD WAIHOLE WATER CO LTD HONOLULU ZOO WAILUPE VALLEY SCHOOL
WAIHAWA DAM 863	8945	05	WAIHAWA		21 30	158 03	854					
WAIHOLE 837	A 8964	01	KOOLAUPOKO		21 28	157 53	745		8A			
WAIALAE KAHALA 715	9185	02	HONOLULU		21 16	157 46	10		7A			
WAIALUA 847	A 9195	05	WAIALUA		21 35	158 07	32	7A	7A		G	
WAIANAE 798.2	A 9231	04	WAIANAE		21 27	158 11	50		7A			
WAIHAWA 836	A 9261	03	EWA		21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO		21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU		21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		21 18	157 45	180					
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		21 20	157 43	60	7A	7A			U H WAIMANALO EXP FARM U H WAIMANALO EXP FARM WAIALUA SUGAR CO INC WAIHOLE WATER CO LTD BOARD OF WTR SUPPLY
WAIMANALO NONOKI 795.2	9534	01	OAHU		21 20	157 43	120					
WAIMEA 892	9593	05	WAIALUA		21 38	158 04	330					
WAIPAHU 750	A 9738	03	EWA		21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU		21 18	157 47	1100		MID			
ISLAND OF MOLOKAI												
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		7A			ART MONTOYA KALAUPAPA SETTLEMENT MOLOKAI RANCH LTD MOLOKAI GENERAL HOSP MOLOKAI RANCH CO LTD KALUA KOI GOLF COURSE DEL MONTE CORPORATION MOLOKAI RANCH CO LTD HAWAIIAN AIR CHARLIE APIA (FOREMAN)
KALAUPAPA 563	A 2896	01	MOLOKAI		21 12	156 59	30		8A			
KAUNAKAKAI 536	3541	01	MOLOKAI		21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		21 06	157 01	70					
KEONELELE PENS 551	A 4394	01	MOLOKAI		21 12	157 12	560		VAR			
KEPUHI-SHERATON 550.2	4500	01	MOLOKAI		21 11	157 14	140					
KUALAPUU 534	A 4778	01	MOLOKAI		21 09	157 02	825					
MAUNALO 511	A 6190	01	MOLOKAI		21 08	157 13	1070					
MOLOKAI AP 524	6534	01	MOLOKAI		21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		21 09	156 44	700					
WAIKOLU 540	A 9404	01	MOLOKAI		21 08	156 55	3550		WI			MOLOKAI RANCH CO LTD
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA		20 52	157 00	1650		WI			DOLE COMPANY DOLE COMPANY HAWAIIAN AIR DOLE COMPANY DOLE COMPANY DOLE COMPANY KOELE COMPANY
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		20 47	157 00	30		8A			
LANAI AIRPORT 656	5275	01	LAHAINA		20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA		20 50	156 55	1620	7A	7A		C	
MAHANA 694	A 5704	01	LAHAINA		20 52	156 55	1540		MO			
MALAEUA 676	A 6012	01	LAHAINA		20 46	156 55	1150		WI			
WAIKAEKUA 685	A 9021	01	LAHAINA		20 47	156 52	2000		WM			

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA		20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA		20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA		20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		20 51	156 18	2100		7A			U H MAUI AGRI EXP STN
HALEAKALA RANCH 432	A 0999	01	MAKAWAO		20 50	156 19	1850		VAR			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO		20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO		20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO		20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA AIRPORT 355	1125	01	HANA		20 48	156 01	61	8A	8A		C	ROYAL HAWAIIAN AIRLINES
HJLLA CABIN 259.5	A 1552	02	MAKAWAO		20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA		20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA		21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA		21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO		20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAANAPALI AP 453.1	2307	04	LAHAINA		20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA		20 54	156 38	2000		MO			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU		20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO		20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO		20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUUA INTAKE 375	A 3433	04	LAHAINA		20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA		20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO		20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA		20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO		20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU		20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA		20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA		20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA BRANCH STN 324.5	5000	02	MAKAWAO		20 46	156 20	3050	1P	7A		CG	U H MAUI AG RESEARCH C
KULA HOSPITAL 267	5006	02	MAKAWAO		20 42	156 22	3004	7A	7A			KULA HOSPITAL 267
LAHAINA 361	5177	04	LAHAINA		20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA		20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA		20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO		20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA		20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA		20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA		21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO		20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA		20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA		20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU		20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA		20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI		20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU		20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO		20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA		20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU		20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA		20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU		20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO		20 46	156 23	1310					KAONOLU RANCH
UKULELE 333	A 8744	01	MAKAWAO		20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA		20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO		20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA		20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIEHU CAMP 484	A 9275	03	WAILUKU		20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU		20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA		20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO		20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU		20 51	156 31	370				C	WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA		20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU		20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA		20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA		19 38	155 47	5220		MO			W H GREENWELL RANCH
AMAULU 89.2	A 0150	02	HILO		19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
HAUNA 214	0840	01	HAMAKUA		20 06	155 28	461		8A			DAVIES HAMAKUA SUGAR CO

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ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO		19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U		19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA		19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U		19 26	155 16	3871	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA		20 14	155 50	580		6A		C	K L BOND
HAW'N OC VW EST 3.9	1385	02	KA'U		19 07	155 47	2900				C	RUSSEL P SMITH
HILO COUNTRY CLUB 86.6	1487	02	HAWAII		19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO		19 43	155 04	36	MID	MID		C	J NATL WEATHER SERVICE
HONAUNAU 27	1665	04	S KONA		19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO		19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO		19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HUEHUE 92.1	A 2156	04	N KONA		19 45	155 59	1960		7A			HUEHUE RANCH
KAAWALO 29	A 2327	04	SOUTH KONA		19 30	155 55	1340		VAR			DILLINGHAM INV CORP
KAHUA RCH HQTRS 176.3	2600	01	HAWAII		20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAILUA HEIGHTS 68.15	2686	04	KONA		19 37	155 58	500		8A			PHILO L GILLARD
KAINALIU 73.2	2751	04	N KONA		19 32	155 56	1500	7A	7A		G	UH HI AGRI EXP STN
KALAOA 69.22	2887	04	HAWAII		19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO		19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KA'U		19 02	155 40	1375		WI			KAWAIIHAE RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U		19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII		19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA		19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA		20 05	155 39	1080		WI			DAVIES HAMAKUA SUGAR CO
KEAAU 92	3872	02	PUNA		19 38	155 02	285		8A			PUNA SUGAR CO
KE-AHOLE PT 68.13	3910	04	N KONA		19 44	156 04	20	6P	6P			RESCH CORPS OF UNIV HI
KEAIWA CAMP 22.1	3925	03	KA'U		19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEUA 3 29.11	3985	04	S KONA		19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA		19 55	155 21	5280				C	U S SOIL CONS SERVICE
KIOLAKAA A & F 6	A 4625	03	KA'U		19 04	155 38	1925		MO			U S SOIL CONS SERVICE
KOHALA MISSION 175.1	4680	01	N KOHALA		20 14	155 48	537		7A			K LYMAN BOND
KOIAWE LOWER 196	A 4685	01	HAMAKUA		20 05	155 38	720		WI			DAVIES HAMAKUA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA		19 39	156 01	30				C	FAA
KONA VILLAGE 93.8	4765	04	N KONA		19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA		20 02	155 21	840		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA		20 07	155 35	980		6A			DAVIES HAMAKUA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM		20 08	155 34	300		6A			DAVIES HAMAKUA SUGAR CO
KULANI CAMP 79	5011	02	S HILO		19 33	155 18	5170	7A	7A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO		19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO		19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD 0 191.1	5260	01	S KOHALA		20 01	155 41	2615	3P	3P		CG	STATE DEPT OF L&N RES
LANIHAW 68.2	5330	04	N KONA		19 40	155 58	1530		7A			KONA EXPERIMENT STATION
MAKALALAU 103	A 5761	02	HAWAII		19 59	155 33	3820		VAR			PARKER RANCH
MANUKA 2	A 6134	03	KA'U		19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII		19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		19 32	155 35	11150	MID	MID			MAUNA LOA OBSERVATORY
MIDDLE PEN 147.1	A 6270	01	N KOHALA		20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U		19 11	155 30	600		MO			KAWAIIHAE RANCH
MOUNTAIN VIEW 91	6552	02	PUNA		19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U		19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA		19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO		20 01	155 17	430	6A	6A		C	DAVIES HAMAKUA SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA		19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA		19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAW 217	7204	01	HAMAKUA		20 05	155 26	415		8A			DAVIES HAMAKUA SUGAR CO
PAAUULO 221	7312	01	HAMAKUA		20 03	155 22	800		7A			DAVIES HAMAKUA SUGAR CO
PAHALA 21	A 7421	03	KA'U		19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA		19 31	154 58	600		6A			PUNA SUGAR COMPANY
PAHOA SCHOOL SITE 64	7465	02	PUNA		19 30	154 57	683				C	GEORGE SALAZAR
PAPAIIKOU 144.1	7711	02	S HILO		19 47	155 06	190		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	A 7721	02	S HILO		19 47	155 08	1285		WI			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO		19 44	155 10	1730		MO			U S SOIL CONS SERVICE
POHAKULO 107	A 8063	02	HAMAKUA		19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII		20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA		19 34	155 49	4880		MO			W H GREENWELL RANCH
PUUHONUA-0-HONAUNAU	8552	04	S KONA		19 25	155 55	15		8A			U S DEPT OF INTERIOR
PUU WAAWAA 94.1	8555	05	N KONA		19 47	155 51	2520				C	PUU WAAWAA RANCH CO
S GLENWOOD	8638	02	PUNA		19 28	155 08	2130		7A			SUSAN CAREY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
SOUTH KONA 2.31	8650	03	HAWAII		19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
UPOLU POINT USCG 159.2	8830	01	N KOHALA		20 15	155 53	61	8A	2P			
WAIKAE SCD 88.2	9025	02	S HILO		19 40	155 08	1050		7A			
WAIKALO-A-BOIS CAS 95.8	9142	04	HAWAII		19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

HAWAII AND PACIFIC
DECEMBER 1980

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
AASUFOU	4000	03	AMER SAMOA		14 19S	170 46W	1340		10A			FOLASA TIUMALU
AFONO	4005	03	AMER SAMOA		14 16S	170 39W	6000		9A			FOLASA TIUMALU
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265				C	MARIST BROTHERS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MID	MID	5P	J	NATL WEATHER SERVICE
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139				C	MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MID	MID	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL, NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CAPITOL HILL	4075	03	SAIPAN		15 13N	145 45E	672				C	MARINO TORVAL/G SABLAN
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
FENA LAKE	4200	03	MARIANAS IS		13 22N	144 42E	60				C	USN PUBLIC WORK CENTER
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A		C	POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		1P			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47				C	DEPT NAT RESOURCES
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N	145 44E	210				C	FLIGHT SERVICE
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM DPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MID	MID		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MID	MID			RAPAHIEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV C G CROWLEY S J
PONAPE HOSPITAL	4745	02	PONAPE		6 58N	158 14E	43				C	TT WEATHER SVC PERSON
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK MOEN I WSO AP	R 4851	01	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	02	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID	5P	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

DAILY SOIL TEMPERATURE TABLE:	Soil Type	Soil Cover	Degree of Slope
Kaunaliu	: Loose, Coarse	Bare	10% to NW
Kekaha 944	: Clay	Sod	0%
Kii-Kahuku	: Clay	Semi-grassy	0%
Kula Branch Station	: Loam	Pasture Grass	20%
Lanai Fld Office	: Loam	Sod	0%
Manoa Lyon Arboretum	: Loose, coarse textured	Grassy	Slight
Waialua	: Sandy loamy material	Bare	0-1%

LATE REPORTS AND CORRECTIONS will be published annually as a Supplemental bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- o No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- * Amount included in following measurement, time distribution unknown.
- 1/2 Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

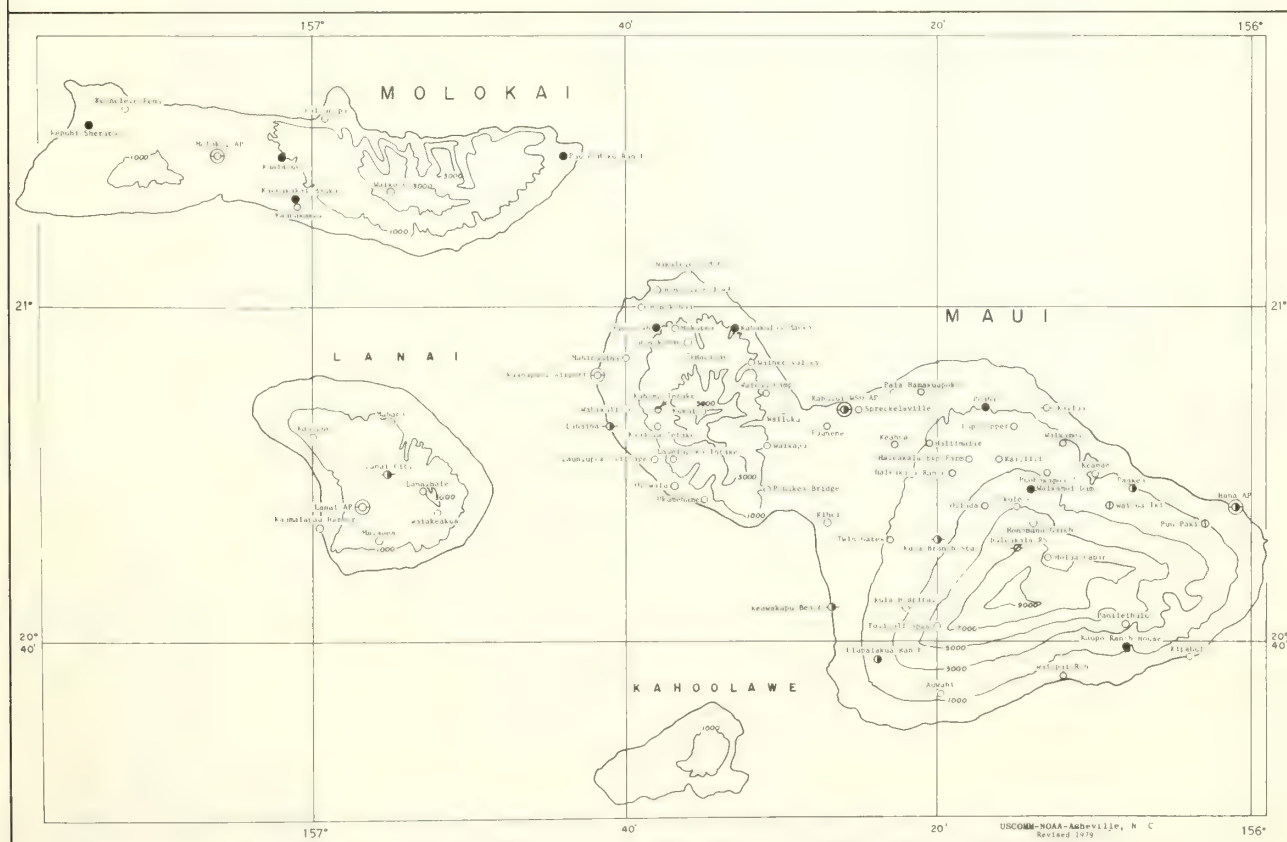
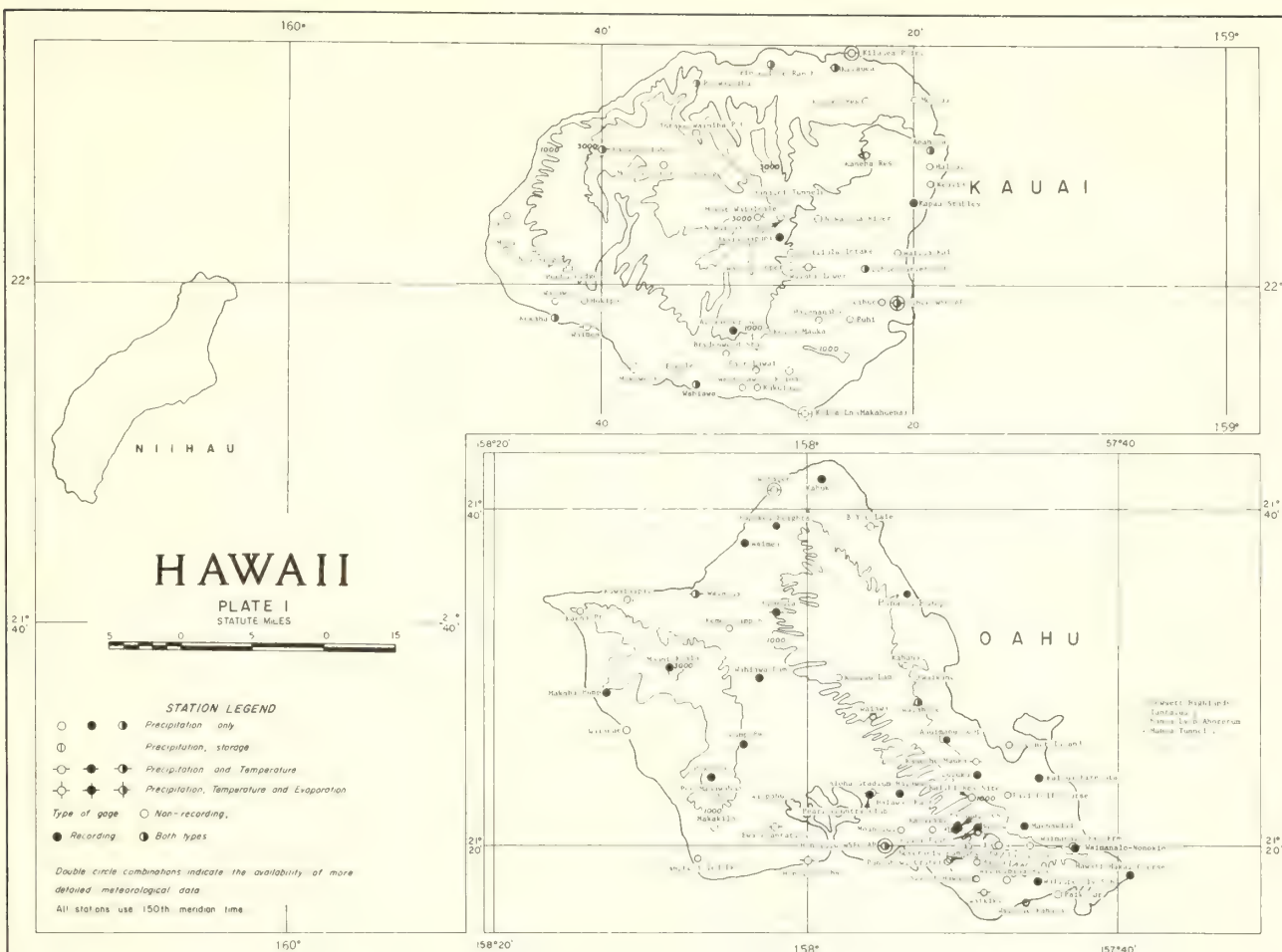
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

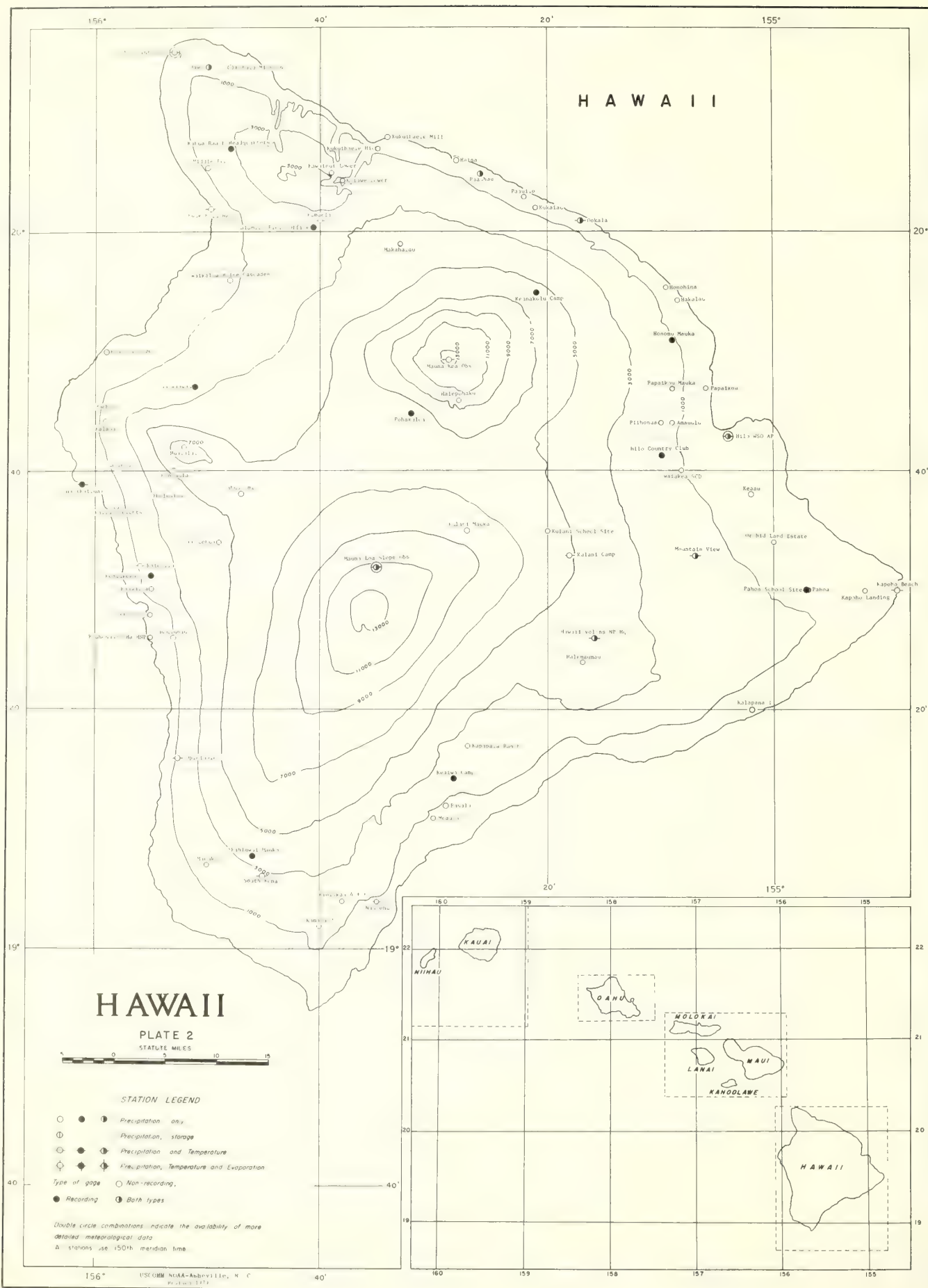
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

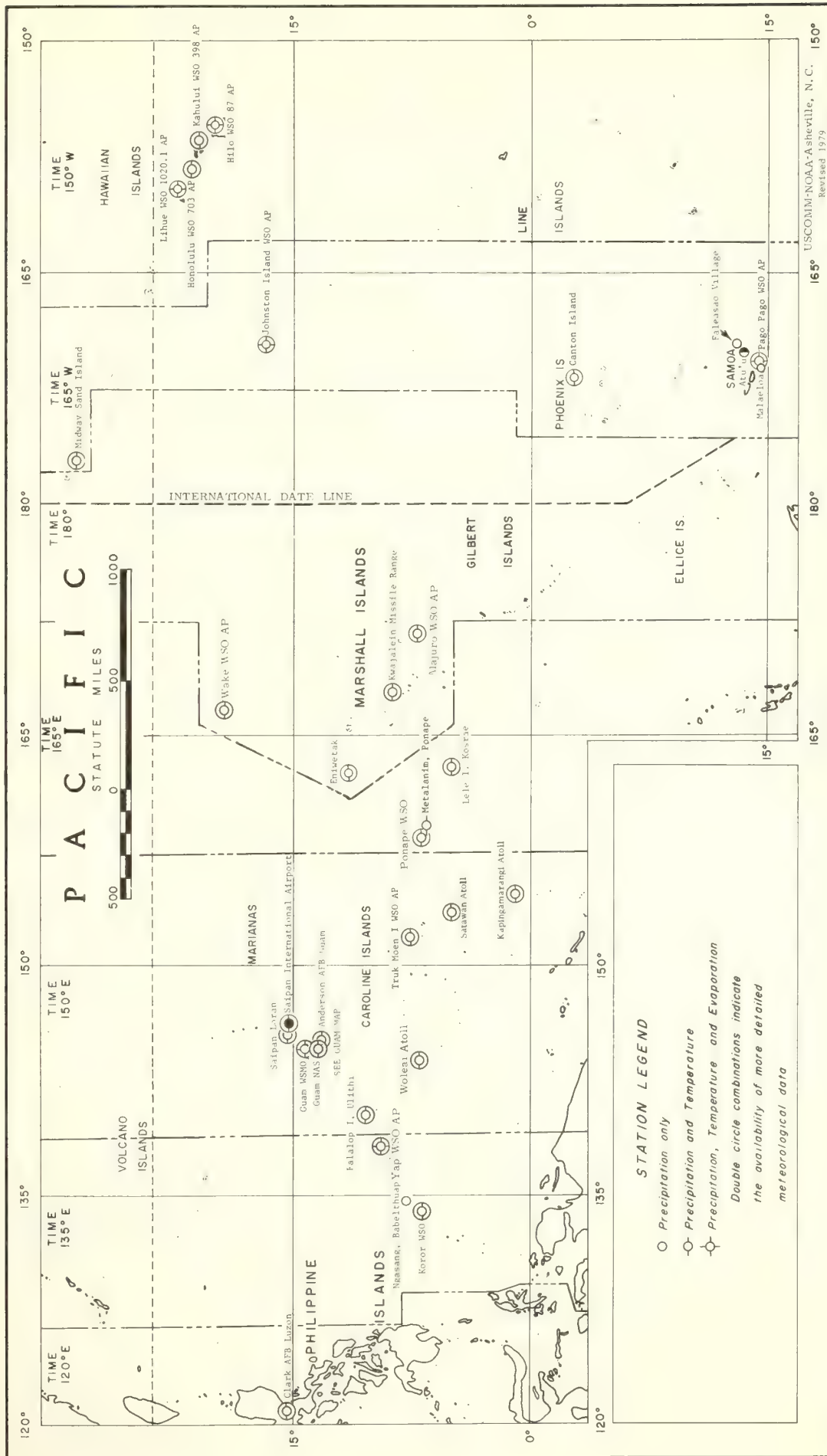
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

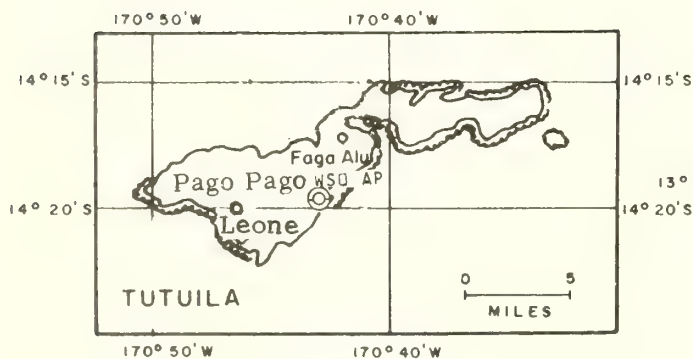
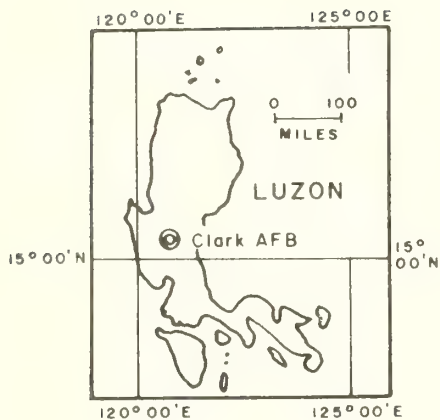
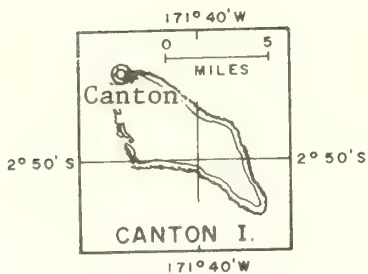
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

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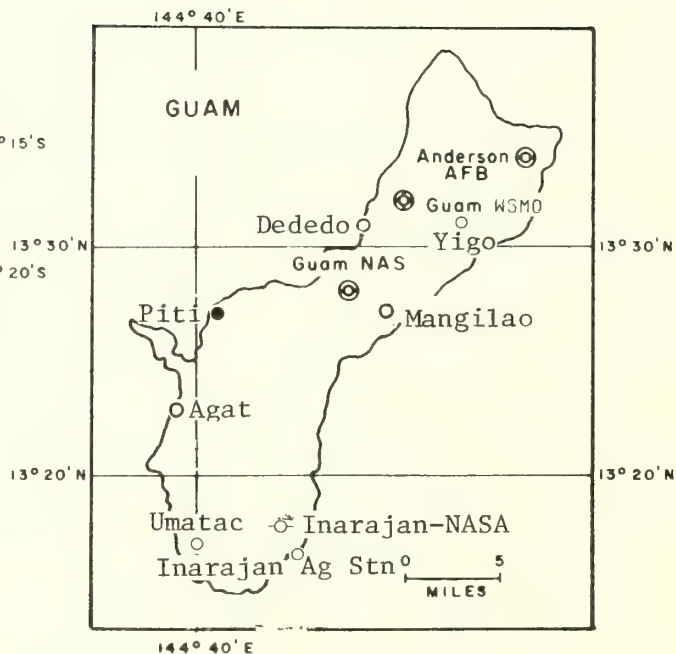


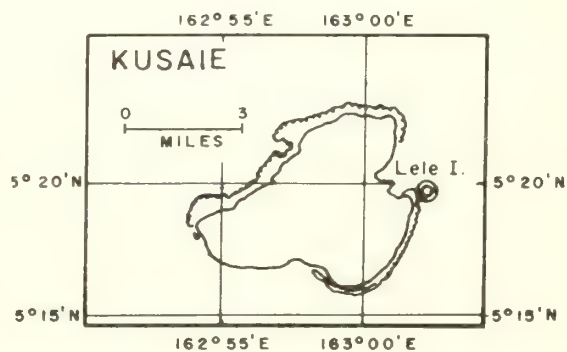
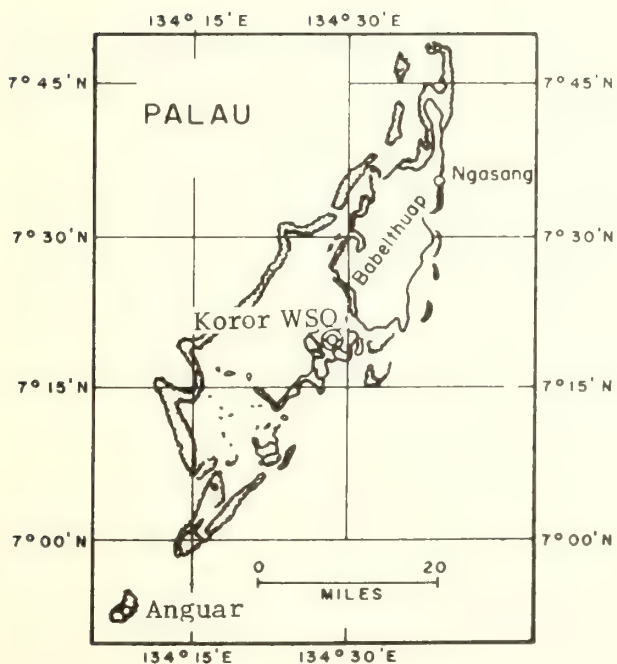
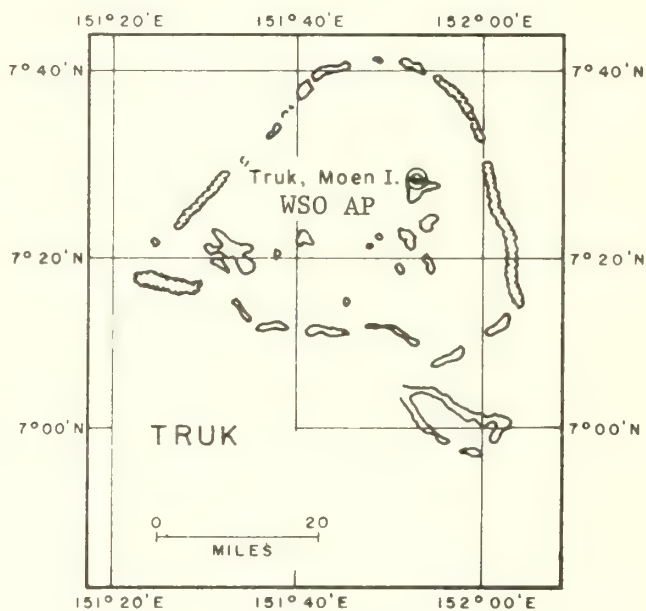
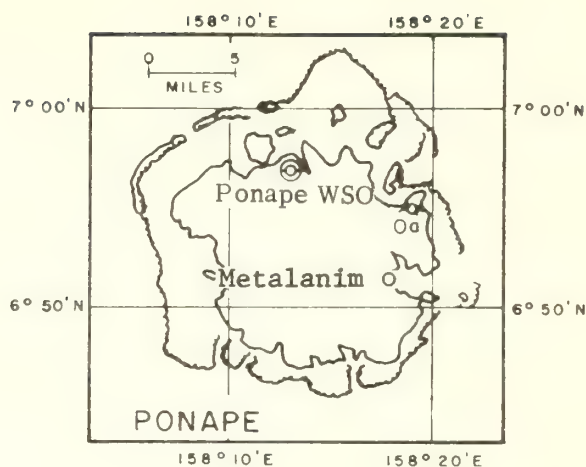
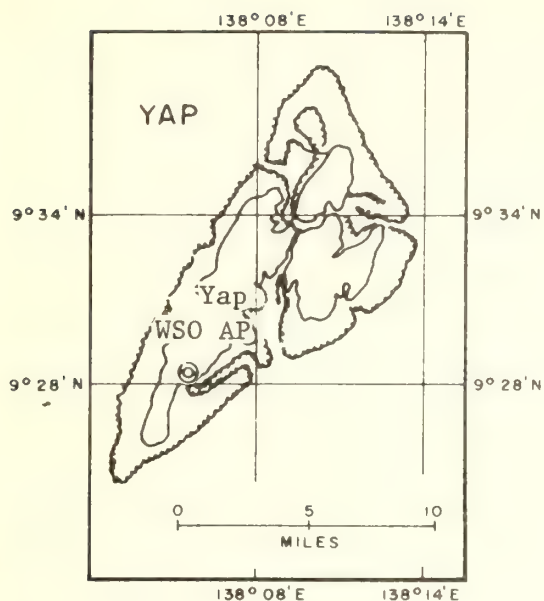




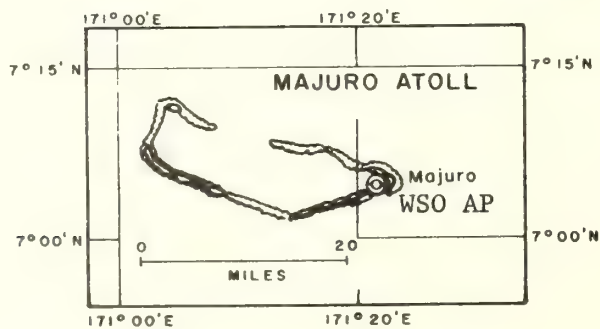
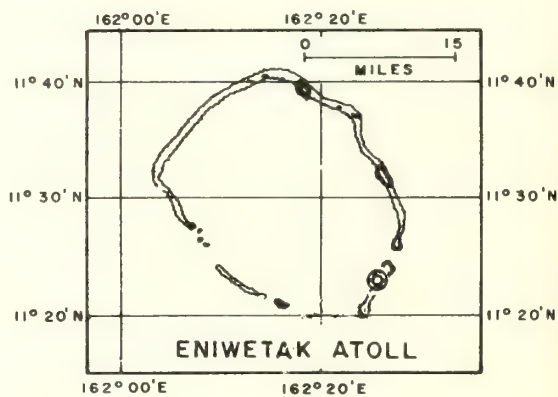
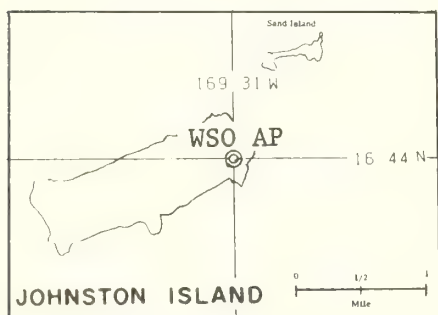
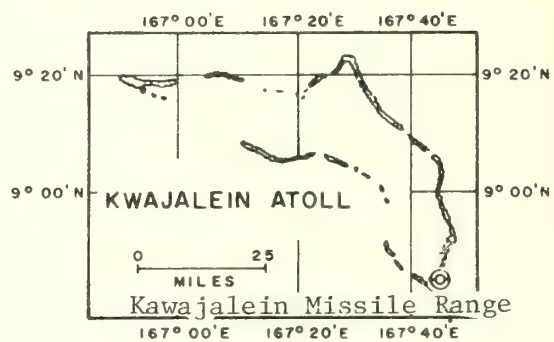
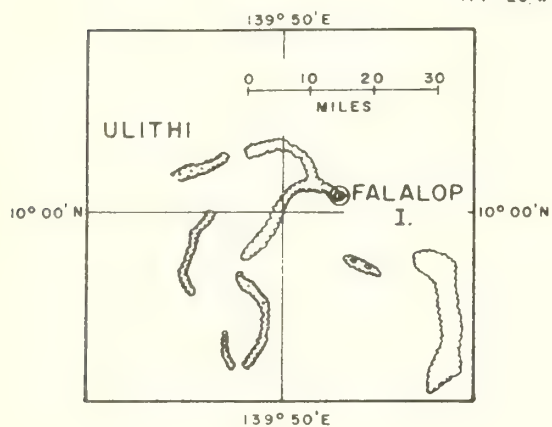
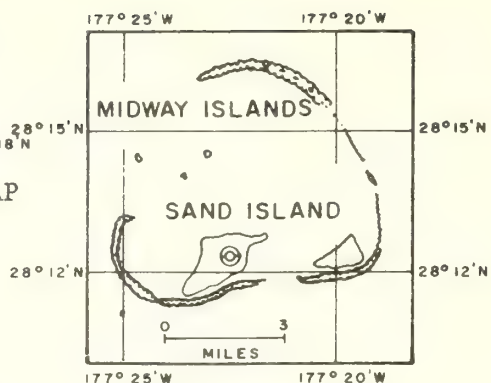
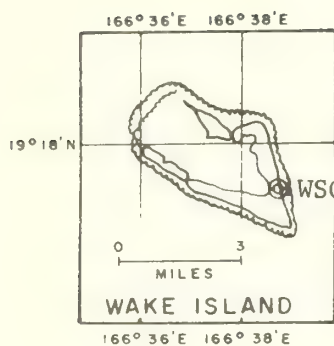


Reef





— Reef



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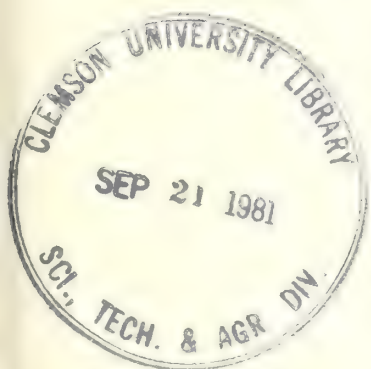
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CLIMATOLOGICAL DATA

ANNUAL SUMMARY



HAWAII & PACIFIC

1980

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801."

A handwritten signature in cursive script that reads "Daniel B. Mitchell".

DIRECTOR
NATIONAL CLIMATIC CENTER

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC
1980

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
HAWAII																										
ISLAND OF MAUI																										
KANALOHU LUMULU 1075	55.3M		55.6		59.1		59.7		61.8		62.5		64.0		63.9		64.7		62.6		60.0		56.8		60.5M	
KEKAHA 94N	-		72.1M		72.5		-		-		-		76.4M		-		78.2M		75.5		74.0		71.8M		-	
KILAUEA POINT 1133	72.3	1.1	71.1	- .1	73.1	1.4	73.5	2.2	75.5	0.0	76.6	0.9	78.2	0.2	79.0	- .1	79.1	0.3	76.7	- .6	75.7	0.5	73.9	1.4	75.4	0.3
LEHOU WSO AP 1020.1	69.2		67.2		69.3		70.3		72.0		72.4		72.8		72.4		74.0		72.5		71.9		68.8		71.1	
WAIHEA 947	71.8		72.3		-		75.5		76.7		-		78.3		78.3		79.0		78.2		77.1		75.1		-	
ISLAND	67.2		67.7		68.5		69.8		71.5		70.5		73.9		73.4		74.9		73.3		71.2		68.7		70.9	
ISLAND OF OAHU																										
ALOHA STADIUM-HALAWA	72.7M		72.9M		74.1M		74.9M		76.3M		77.6M		79.0M		79.1M		79.3M		78.7M		77.6		74.6M		-	
8 Y C LAIE 903.1	70.7		70.3		72.0		72.6		75.2		76.6		77.7M		77.6		80.1M		77.7		77.6		73.5		75.2M	
HONOLULU OBSERV 702.2	71.3		70.7		74.4		75.8		77.2		78.1		79.4		79.5		80.1		78.3		76.7		73.4		76.2	
HONOLULU WSO AP 703	71.9	- .4	72.4	- .1	75.0	2.0	76.1	1.3	78.3	1.4	79.5	0.6	80.9	0.8	81.0	0.8	81.6	1.2	80.1	1.2	78.0	1.5	74.4	0.7	77.4	0.9
KANEHE MAUNA 781	72.2	1.1	72.9	1.9	74.2	3.0	75.2	2.6	77.4	3.2	78.0	2.1	79.5	1.9	79.4M	2.4	80.0	3.2	79.6M	3.7	78.7	3.6	77.4	3.6	-	
KII-KAHUKU 511	-		-		73.1M		74.1		75.0		-		77.9		77.9		78.8M		78.1		77.0		74.0		-	
WANDA LYON ABBOTTEM	69.8		70.5		69.6		70.6		73.2		73.3		74.1		74.0		76.8		75.4		74.7		72.5		73.0	
OPAEULA 870	69.7	2.9	71.4	5.0	69.9	3.1	72.2	4.1	73.2	3.2	75.0	3.3	75.5	3.1	75.0	1.9	77.1	3.8	76.5	4.2	75.6M	5.2	72.9M	5.0	73.7M	3.8
PUU MANAWAHA 725.6	66.5		66.5M		67.3		68.3		70.4M		71.0		72.8		73.8		74.6		73.1		71.9		68.9		70.4M	
WAILUA 847	70.5	0.4	69.6	- .1	70.9	0.8	72.1	0.6	74.5	1.2	74.6	0.8	76.5	0.4	77.2M	0.6	78.7M	1.7	76.0	0.7	74.3	0.8	73.4	2.3	74.0M	0.7
WAIKIKI 717.2	73.0		72.6		75.9		76.7M		78.4		79.2		80.2		80.2		80.8		79.5		77.8		75.6		77.5M	
WAIMANALO EXP FM 795.1	71.7		70.9		72.8		73.7		75.8		76.9		77.9		78.3		79.0		77.7		75.8		73.5		75.3	
ISLAND	70.9		71.0		72.4		73.5		75.4		76.3		77.5		77.8		78.9		77.6		75.9		73.3		75.0	
ISLAND OF MOLOKAI																										
MOLEKAI AP 52N	70.4M		71.4M		72.5		72.6		75.4		76.7		77.4		77.4		78.4M		78.4M		76.7M		73.1		75.0M	
ISLAND	70.4		71.4		72.5		72.6		75.4		76.7		77.4		77.4		78.4		78.4		76.7		73.1		75.0	
ISLAND OF LANAI																										
LANAI AIRPORT 656	67.4		68.2		70.3		70.5		72.2		72.5		74.7		73.4		74.4		73.4		70.7		69.2		71.3	
LANAI CITY 672	65.7M	- .1	67.1	1.2	67.4	1.0	67.3	- .3	69.0	0.0	69.4	- 1.1	70.5	- .9	70.4	- 1.7	71.9	- 1.1	70.8	- .1	69.9	0.9	69.0	2.2	69.0M	- 1
ISLAND	65.7		67.1		67.4		67.3		69.0		69.4		70.5		70.4		71.9		70.8		69.9		69.0		69.0	
ISLAND OF MAUI																										
HALEAKALA P S 33A	50.4	- .6	50.1	- .2	49.9	- .3	52.6	0.4	55.1	1.5	54.3	- 2.1	55.6	- .8	54.1	- 2.9	55.9	- .9	54.9	- .1	54.7	1.1	53.7	2.0	53.4	- 2
HANA AIRPORT 355	-		72.6M		73.8		75.2		77.0		77.9		79.4		79.4		79.0		77.3M		76.9		74.6M		-	
KAANAPALI AP 653.1	71.1M		71.6		73.5		74.5		76.5		77.0		78.9		78.9		79.3		79.2M		78.0		75.0M		76.1M	
KAHULUI WSO 39A AP	73.3	1.6	73.4	1.8	75.6	3.4	75.9	2.1	78.9	3.5	80.0	2.9	81.2	3.0	80.5	1.7	81.0	2.6	79.8	2.5	78.2	2.9	76.0	3.4	77.8	2.6
KAILUA 946	69.2M	1.1	69.9M	2.0	68.6M	0.5	69.6	0.4	71.4M	0.8	72.0M	0.0	72.0	- .7	72.8M	- .9	72.7	- .6	72.3	- .3	71.5M	0.4	70.8M	1.9	71.1M	0.4
KEAWAKAPU BEACH 260.2	72.1		72.8		74.0		75.0		77.6		77.9		79.9		-		79.9M		78.6		76.6		74.7M		-	
KULA BRANCH 52N 324.5	61.1		62.0		63.0		63.1		65.0		65.2		66.5		66.8		67.9		66.8M		64.6		64.7M		64.7M	
KULA HOSPITAL 257	60.0	- 1.5	62.1	1.2	62.4	1.8	62.5	0.4	63.8	0.3	65.0	0.3	66.4	0.0	65.7	- 1.0	66.6	0.5	65.4	- .6	65.0	0.6	64.0	1.6	64.0	0.3
LAHAINA 361	72.4	0.9	72.8	1.3	75.0	3.1	75.8	2.5	77.6	2.7	78.1	1.6	79.1	1.9	79.9	1.9	80.0	2.3	78.3	1.3	75.9	0.7	74.1	1.1	76.6	1.8
ISLAND	66.1		67.5		68.4		69.4		71.5		72.0		73.0		73.0		73.5		72.5		71.5		69.7		70.7	
ISLAND OF HAWAII																										
HAWAII VOLCANOES NP HQ 54	59.0	1.1	61.2M	1.6	57.9	- .1	61.2M	2.2	62.1	1.7	61.9	0.2	64.0	1.3	63.9	0.7	64.5	1.5	63.4	- 1.0	62.1	1.5	61.3	2.9	61.9M	1.5
HILO WSO AP 87	71.6	0.4	72.6	1.6	72.3	1.2	74.5	2.3	77.3	3.8	77.6	3.0	77.8	2.5	75.0	- .9	75.7	1.1	74.8	- .2	73.8	0.3	74.2	2.6	74.8	1.4
KAINALIHI 77.7	68.7		70.2		70.7		70.2		71.5		71.1		72.2		71.9		72.8		72.5		70.6		70.2		71.0	
KAMUELA 192.2	61.5		62.7		63.6M		-		-		-		74.4M		77.9		78.7M		78.1		77.3M		76.1		-	
KAPOHO BEACH 93.11	73.6		75.3M		74.0		-		77.2M		77.9		79.4M		77.9		78.7M		78.1		77.3M		76.1		-	
KE-AHOLE PT 68.13	-		-		76.3M		-		77.8		78.8		79.5		81.3M		82.0M		81.3M		78.8M		77.4		-	
KULANI CAMP 79	54.6M		55.6M		54.0M		55.7M		58.2M		57.6M		59.8M		58.2M		59.9M		58.2M		56.8M		57.5M		57.1M	
LALAMLO FLD 0 191.1	-		-		-		-		68.7M		68.7M		69.7		69.4		69.1M		70.6M		68.9		68.6M		-	
MAUNA LOA SLOPE OBS	-		45.7M		44.3		45.5		48.2		48.2		49.3		49.9		49.7		46.6		46.0		46.0		-	
MOUNTAIN VIEW 91	67.2	1.6	68.4	3.2	65.4M	0.7	68.7	1.8	69.3	1.9	69.6	1.0	70.6	1.3	70.7	0.7	71.1	1.3	70.3	1.0	69.4M	1.5	69.6	3.6	69.2M	1.7
MAALEHU 14	69.9		71.9M		71.2		71.8		72.3		73.1		74.5		74.6		74.9		75.0		74.7		73.1		73.1M	
OPAKA 223	70.7	0.2	71.0	1.2	70.2	- .1	71.3	0.2	73.4	0.8	74.1	0.0	74.7	0.5	75.1	- .1	75.0	0.4	74.8	0.1	73.4	0.5	72.8	1.9	73.0	
OPINIHOLE 2 24.1	67.3		69.7		68.9		69.3		70.2		70.6		71.4		71.1		70.7		70.7		70.6		70.1		70.1	
PUUKOHOA HEIAU 98.1	73.2M		74.5		76.8M		78.7M		78.5		78.1		79.9		79.0M		80.2M		77.1		77.1M		74.9		77.3M	
SOUTH KONA 2.31	61.7		65.1		65.3		66.8		68.1M		67.7		68.9		68.7		69.7		68.1		67.2		66.2M		67.1M	
UPOLU POINT USCG 159.2	72.9M		74.8M		72.3		73.0		75.0		76															

Table 1

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
PACIFIC																										
* * *																										
EAST OF 160TH MERIDIAN																										
JOHNSTON ISLAND AP	77.8	-1.2	77.7	-1.2	79.1	-2.5	79.5	-1.9	80.5	-1.6	81.6	-1.4	82.3	-1.5	82.6	-1.4	83.0	-2.1	81.8	-1.2	80.3	-1.0	79.7	-2.1	80.5	-1.6
MIDWAY SAND ISLAND	84.1	-1.4	84.5	-1.2	89.0	-2.4	90.0	-2.4	93.0	-1.6	97.6	-1.9	91.7	-3.5	81.1	-2.4	81.3	-2.5	79.0	-3.4	74.6	-2.7	69.0	-5.5	73.7	-1.7
PAGO PAGO WSO AP	81.1	-1.8	81.4	-1.5	82.2	-1.8	82.4	-1.8	79.6	-1.1	80.6	-1.5	79.2	-1.9	79.4	-1.2	80.7	-1.2	79.7	-3.3	81.8	-1.9	81.6	-1.6	80.8	-1.2
* * *																										
WESTERN PACIFIC ISLANDS NORTH OF 12 N																										
ANDERSEN AFB GUAM	79.1	-1.9	78.4	-1.4	79.7	-1.5	80.5	-1.0	80.4	-1.1	81.2	-1.4	81.1	-1.7	80.2	-1.1	79.4	-1.2	81.6	-1.6	81.9	-1.6	80.8	-1.5	80.3	-1.7
CLARK AFB LUZON	74.1	-1.3	79.0	-2.2	80.9	-1.4	81.4	-1.4	83.6	-1.6	85.0	-3.1	82.6	-2.0	82.4	-2.6	82.5	-2.7	82.3	-1.9	81.6	-2.2	79.3	-1.8	81.7	-1.2
GUAM NAS	79.7	-1.3	80.1	-1.7	79.9	-1.1	81.9	-1.1	82.1	-1.8	83.0	-1.2	87.0	-1.6	81.5	-2.3	81.4	-1.6	81.9	-1.1	82.8	-1.8	81.4	-1.2	81.7	-1.0
GUAM WSO	74.4	-1.9	77.4	-1.1	77.6	-1.1	79.3	-1.5	79.5	-1.1	79.7	-1.1	79.6	-1.2	80.2	-1.1	79.4	-1.3	79.8	-1.9	80.4	-1.8	78.0	-1.5	78.9	-1.2
INARAJAN - NAS	79.0				80.1		79.0		80.9		79.9		81.2		80.7		80.3		80.7		80.0		79.5			
NAHE ISLAND WSO AP	77.6	-1.6	76.1	-1.9	78.7	-1.6	79.7	-1.4	80.7	-1.9	82.8	-1.3	84.3	-2.3	81.5	-1.9	84.5	-2.0	82.1	-1.5	81.6	-1.2	80.2	-1.6	81.0	-1.1
* * *																										
CAROLINE AND MARSHALL ISLANDS																										
KOROR WSO	80.8	-1.4	80.2	-1.5	81.4	-1.5	81.8	-1.1	82.5	-1.5	81.8	-1.2	81.1	-1.2	80.9	-1.3	81.6	-1.0	82.3	-1.4	83.0	-1.1	82.3	-1.0	81.6	-1.1
KWAJALEIN MISSILE RM	81.9	-1.7	82.0	-1.6	81.7	-1.6	82.0	-1.2	81.4	-1.4	82.4	-1.5	82.3	-1.2	82.9	-1.4	82.1	-1.2	82.8	-1.4	82.0	-1.3	82.5	-1.9	82.3	-1.4
MAJURO WSO AP	81.4	-1.6	81.3	-1.1	81.3	-1.1	81.6	-1.5	81.5	-1.2	81.9	-1.9	81.5	-1.5	81.5	-1.0	81.7	-1.3	82.2	-1.9	81.9	-1.7	81.0	-1.1	81.6	-1.4
METALANIM	78.7		78.4		79.3		79.1		79.5		80.9		81.2		80.9		80.6		80.8		80.7		80.8		80.1	
PONAPE WSO	81.9	-1.3	81.7	-1.0	82.8	-2.0	82.4	-1.7	80.9	-2.8	81.7	-1.2	81.3	-1.3	81.1	-1.2	81.0	-1.4	81.3	-1.1	81.9	-1.6	82.3	-1.7	81.7	-1.2
TRUK KOEN I WSO AP	81.2	-1.2	81.5	-1.4	81.8	-1.5	82.5	-1.5	82.0	-1.7	81.8	-1.5	80.8	-1.1	81.1	-1.2	81.5	-1.5	80.4	-1.7	81.3	-1.0	81.2	-1.1	81.4	-1.3
YAP WSO AP	80.7	-1.3	80.2	-1.3	81.0	-1.0	81.7	-1.0	81.7	-1.1	80.9	-1.8	80.6	-1.6	81.4	-1.4	80.8	-1.0	80.9	-1.5	80.8	-1.7	80.5	-1.5	80.9	-1.3

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

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TABLE 2

STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
HAWAII																												

ISLAND OF HAWAII																												
ANAHOLA 1119	A	4.43		2.14		3.27		2.13		8.46		1.32		2.48		1.03		4.26		3.04		1.21		7.01		43.18		
BEHEEWOOD STA 986	A	4.75		2.21		10.06		4.81		8.43		5.49		6.70		1.49		1.74		4.08		2.03		5.33		61.40		
EAST LAKE 934	A	4.43				10.44		7.07		7.01		11.75		8.69		2.87		3.28		7.27		2.37		5.71		75.43		
ICELE 827	A	3.39		2.14		1.49		.69		5.31		3.76		1.25		.40		.73		2.01		.47		4.33		28.08		
MAKAHA 1110	A	4.52		2.93		4.17		1.27		9.02		3.70		4.14		1.36		4.38		3.52		2.30		5.85		49.21		
MAKELAHOU 1076	A	6.12		2.15		8.40		10.64		13.18		11.48		8.65		4.00		5.93		7.49		4.45		6.07		88.56		
MAKALI TUNNEL 1053	A	9.40		3.47		24.40		10.40		36.40		14.20		20.80				7.20		10.60		14.00		17.55				
MUKIPO 645	A	1.49	1.41	2.71	.99	2.53	2.13			2.02	5.16	3.97	.54	.76	.08	.47	.23	.68	.08	.61	1.18	1.64	.00	2.56	5.10	.32	17.50	8.06
NIHILUA INTAKE 1040	A	9.32		6.72		24.55		17.99		21.61		22.88		22.77		7.43		13.79		15.15		9.32		9.43		179.97		
INTAKE WAINIPA PC 1086	A	10.76		6.27		42.24		46.60		17.74		24.21		20.10		8.86		3.77		18.96		14.17		7.21		219.69		
ANAHELE HOU 1075	A	15.53		6.99		4.40		3.16		10.63		2.72		1.67		.83		.40		2.84		1.99		11.44		62.50		
KANOA RESERVOIR 1090	A	4.73		1.46		9.70		11.73		17.06		9.14		10.11		4.73		4.62		9.52		6.09		8.57		105.33		
HEALIA 1112	A	3.17		1.40		2.28		2.65		7.18		2.68		3.03		.75		3.36		3.04		1.58		1.14		35.73		
HEAHANA 944	A	2.71	1.92	1.53	1.04	.18	.99	.00	1.56	3.37	2.33	.46	.71	.07	.32	.87	.12	.01	.73	.13	1.59	.09	2.09	4.51	.27	14.63	7.81	
HEAHANA 1134	A	5.37		3.54		6.37		5.42		10.99		4.67		7.87		2.76		5.45		7.71		2.97		5.26		68.38		
HEAHEA POINT 1137	A	4.18		2.18		3.36		2.09		4.70		4.26		3.16		1.75		4.29		4.05		1.89		4.09		39.50		
KOLO 1033	A	4.12	1.13	1.44	1.14	.08	7.31	.22	1.61	5.17	4.14	.96	.42	.23	.28	.08	.40	.00	.91	.69	1.84	.41	2.05	4.88	.51	18.04	7.20	
KOLOA 936	A	4.43		2.96		10.35		8.69		8.73		11.04		9.57		3.73		3.22		6.49		2.80		5.77		78.78		
KOLOA MAUKA 994	A	5.78		2.07				9.61		5.42		17.77																

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1980

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
ISLAND OF MOLOKAI																										
HAWAII VALLEY 542.9	-	-	5.40	-	5.21	-	1.41	-	4.12	-	1.92	-	5.15	-	5.85	-	3.12	-	2.46	-	.89	-	6.14	-	-	-
KALAPAPA 563	10.97	7.19	7.19	-	8.10	-	5.49	-	3.39	-	1.11	-	5.33	-	2.77	-	1.58	-	1.62	-	.85	-	8.12	-	56.72	-
KAUNAKAKI 536	8.07	2.73	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	2.73	-	25.10	-
KEONELELE PENS 551	14.92	1.64	1.64	-	2.25	-	.62	-	6.75	-	.00	-	.70	-	1.13	-	.03	-	.00	-	.00	-	6.50	-	35.78	-
MOLOKAI AP 524	-	-	2.75	-	2.75	-	2.29	-	3.44	-	1.46	-	.58	-	1.46	-	.37	-	.80	-	-	-	5.88	-	-	-
WAIKOLU 540	1.16	13.22	13.22	-	19.10	-	24.30	-	15.48	-	5.06	-	7.74	-	5.12	-	3.03	-	4.74	-	2.31	-	7.91	-	108.37	-
ISLAND																										
-	-	-	-	-	2.05	-	2.29	-	3.44	-	1.46	-	.58	-	1.46	-	.37	-	.80	-	-	-	5.88	-	-	-
ISLAND OF LANAI																										
KANEPUU 690	18.68	2.13	7.85	-	2.83	-	2.80	-	2.74	-	.43	-	.45	-	-	-	-	-	-	-	-	8.81	-	-	-	-
KAUAPALAPU HARBOR 658	-	3.48	1.24	-	.09	-	2.23	-	1.56	-	.78	-	1.24	-	.33	-	.02	-	.02	-	.00	-	5.12	-	-	-
LANAI AIRPORT 656	10.84	5.67	1.80	-	.42	-	4.22	-	1.49	-	1.57	-	1.81	-	.92	-	.02	-	.02	-	.16	-	7.72	-	36.64	-
LANAI CITY 672	14.14	8.41	3.27	-	2.43	-	2.15	-	1.14	-	1.61	-	1.50	-	.78	-	2.30	-	1.94	-	2.41	-	1.16	-	46.31	-
MAHANA 694	20.77	4.05	7.01	-	1.09	-	1.61	-	1.67	-	.77	-	2.30	-	.84	-	.00	-	.07	-	3.97	-	6.21	-	8.22	-
MAHAUEA 676	9.05	2.45	2.54	-	.67	-	1.02	-	7.54	-	.56	-	1.13	-	-	-	-	-	-	-	-	3.97	-	-	-	
WAIKAEKUA 685	12.79	5.16	1.13	-	.67	-	3.49	-	3.49	-	.17	-	1.14	-	1.84	-	.04	-	.04	-	.00	-	5.52	-	32.45	-
ISLAND																										
-	14.15	6.49	2.09	-	7.15	-	4.43	-	.60	-	4.44	-	1.63	-	1.94	-	.07	-	.16	-	7.66	-	46.31	-	-	-
ISLAND OF MAUI																										
AUWAHI 252	11.70	7.72	6.40	-	1.18	-	-	-	.00	-	.67	-	.17	-	.00	-	.80	-	.00	-	2.95	-	-	-	-	-
HAELAAU 477	10.60	10.50	33.00	-	30.00	-	22.00	-	11.00	-	11.00	-	34.00	-	4.00	-	9.75	-	3.12	-	5.00	-	-	-	-	-
HALEAKALA EXP FARM 434	11.72	5.78	43.84	-	25.15	-	7.92	-	4.17	-	6.85	-	2.49	-	1.39	-	5.60	-	1.26	-	2.94	-	119.11	-	-	-
HALEAKALA RANCH 432	16.92	5.25	22.73	-	11.23	-	2.05	-	2.41	-	1.86	-	1.86	-	1.86	-	1.86	-	1.86	-	1.86	-	1.86	-	-	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-	4.40	-	121.16	-	67.42	-
HALEAKALA R 5 338	47.95	35.72	7.67	-	22.02	-	36.31	-	10.94	-	6.91	-	1.48	-	.84	-	2.23	-	1.02	-						

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC
1980

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
WAIKOLA 192.2	9.93	5.72	2.62	-1.16	12.40	8.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPAPALA RANCH 36	4.79	4.19	4.19	4.19	40.66	1.31	3.02	1.51	4.61	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	
KAPONO BEACH 93.11	1.81	2.23	15.85	4.17	3.81	3.88	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	6.16	7.34	
KAPONO LANDING 93.5	1.93	4.30	23.65	6.66	7.64	11.34	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	
KAWAIAU LOWER 193	18.72	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KESAL 92	4.67	4.22	47.10	14.50	10.40	12.11	9.08	11.13	15.15	8.43	7.38	1.37	140.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
KE-AHOLI PT 68.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KIOLAKAA A & F 6	1.05	1.4	20.00	2.03	-	4.60	2.25	-	4.60	2.25	-	4.60	2.25	-	4.60	2.25	-	4.60	2.25	-	4.60	2.25	-	4.60	2.25	-	4.60
KOHALA MISSION 175.1	13.55	7.88	5.47	30	23.74	16.46	12.13	6.12	5.20	4.68	4.59	4.97	4.53	4.95	4.22	1.52	5.26	2.71	6.44	2.00	5.07	1.19	3.97	3.59	94.17	30.87	
KOIAWE LOWER 196	15.80	1.49	-	-	34.62	9.16	1.62	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	5.39	
KONA VILLAGE 93.8	7.95	1.47	1.45	26	8.9	5.8	1.9	4.0	2.02	1.02	1.02	2.57	16.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
KUKIAU 222	3.55	3.78	9.03	2.59	70.06	55.67	36.64	23.56	4.55	1.80	5.61	2.29	2.65	3.24	3.20	5.24	7.25	3.69	8.73	1.33	6.77	2.91	1.85	10.17	161.89	54.97	
KUKIAHOLE HIC 199	12.14	6.44	5.40	1.65	38.91	29.05	23.39	15.22	5.77	1.9	3.54	5.8	4.69	2.4	3.23	2.44	6.34	3.61	6.17	5.9	3.10	3.40	1.84	7.33	114.52	40.62	
KUKIAHOLE MILL 206	5.27	3.52	26.78	16.44	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	2.71	2.95	
KULANI CAMP 79	3.26	2.23	86.34	13.65	6.94	7.01	4.99	5.22	7.13	7.59	6.01	2.66	153.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
KULANI MAUKA 76	1.31	1.18	19.32	3.56	2.77	9.3	1.07	1.02	-	1.81	1.81	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KULANI SCHOOL SITE 76	1.13	4.2	53.40	29.75	9.87	7.30	3.93	2.40	7.32	2.21	6.49	6.30	119.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
LALAMULO FLO O 191.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LANTHAU 68.2	11.25	2.93	6.45	5.00	5.25	12.71	6.53	9.24	11.60	3.23	5.7	4.20	78.96	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAKAHALAU 103	9.00	3.22	15.60	2.07	1.91	4.5	1.90	7.7	6.0	9.3	5.2	1.49	38.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUKA 2	3.00	1.90	12.50	2.90	3.45	4.05	5.25	6.20	5.30	2.88	1.05	2.80	51.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAUKA KEA OBS 111.2	4.60	0.2	-	-	7.17	7	1.12	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAUKA LOA SLOPE OBS	11.55	1.00	15.57	4.0	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	1.06	2.21	
MIDDLE PEN 147.1	7.01	3.39	2.91	3.0	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	1.33	2.86	
MOAULA 18	2.40	0.95	32.20	5.4	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	1.57	1.79	
MOUNTAIN VIEW 91	1.29	10.90	5.50	10.93	79.56	59.18	25.49	5.63	13.40	3.27	16.37	5.71	14.24	5.9	12.44	4.37	18.16	7.32	13.92	1.11	10.10	8.58	8.44	19.27	211.31	20.22	
NAALAEU 14	1.73	5.4	24.09	1.73	3.88	7.4	1.68	2.18	2.28	1.51	1.61	3.39	45.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
NAPDOPOO 28	-	-	-	-	3.53	1.14	3.21	3.42	3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OKALA 223	3.06	4.08	11.69	17	61.11	47.05	28.36	15.24	3.31	6.04	8.27	3.84	4.99	2.25	4.21	5.22	11.73	7.14	7.98	0.8	7.42	2.95	6.86	6.93	159.01	46.09	
OPIHIALE 2 24.1	5.94	2.15	11.47	4.80	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	3.01	3.37	
ORCHID LAND EST 91.5	2.75	3.54	38.25	13.95	10.76	9.70	8.66	7.66	17.71	10.48	8.25	1.04	132.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAUHAU 217	2.49	2.32	6.63	4.44	36.67	27.82	20.84	13.05	2.23	2.42	3.32	1.46	1.51	1.97	2.69	1.83	4.98	2.78	5.11	0.8	3.97	1.95	7.79	4.74	94.21	29.52	
PAUHAU 221	4.25	2.30	7.44	3.00	62.78	49.84	32.36	21.18	4.91	2.06	4.36	1.71	2.82	1.94	2.37	4.25	5.93	3.20	6.46	1.17	5.72	2.56	3.25	9.25	142.65	50.74	
PAHALA 21	2.58	1.74	28.93	1.51	2.16	5.4	2.57	1.93	2.72	2.03	9.5	3.98	50.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAHALA 65	4.70	6.32	6.10	7.07	43.89	28.73	13.43	8.4	11.54	3.33	12.21	4.11	12.23	2.03	9.80	1.13	19.59	11.09	10.93	8.8	8.12	6.16	2.86	14.42	155.40	10.29	
PAPAIAKU 144.1	5.5	8.83	5.31	8.05	67.54	52.95	16.21	2.19	8.17	3.37	14.85	7.87	11.19	7.9	7.17	5.76	21.71	13.32	9.07	2.76	7.40	6.34	1.04	16.28	170.21	26.23	
PAPAIAKU MAUKA 140.1	7.44	13.21	5.01	12.98	94.01	70.57	34.31	11.07	13.16	6.37	19.07	7.11	12.65	4.47	5.91	15.20	29.80	16.97	9.95	7.05	13.97	5.92	7.74	23.21	239.32	17.31	
PILIHONUA 89	3.60	8.80	-	-	-	-	22.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PJUKOHOLA HEIAU 98.1	6.32	1.09	1.67	1.10	0.86	1.10	0.3	1.66	0.37	0.0	0.0	1.33	14.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUU LEHUA 73	19.27	1.40	4.70	1.70	1.60	2.70	4.35	2.20	3.20	5.7	2.1	1.75	44.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUUHONUA-O-HONAUNAU	7.63	0.86	4.39	1.16	-	2.03	1.90	3.33	2.88	1.77	2.01	1.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
S GLENWOOD	-	-	-	-	-	-	14.18	16.88	14.83	12.13	16.10	12.94	11.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOUTH KONA 2.31	3.08	1.71	13.80	4.44	0.73	0.55	1.92	1.07	2.63	1.60	0.57	1.22	29.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
UPOLO POINT USCG 159.2	10.23	1.52	16.51	4.81	2.96	1.91	1.54	2.74	1.89	2.52	2.92	1.40	50.50	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIKAE SCD 88.2	5.99	5.81	90.07	34.06	14.22	16.73	15.72	11.66	22.88	13.06	8.32	5.2	234.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAIKALOA-ROIS CAS 95.8	6.44	0.87	2.04	0.39	2.70	1.23	0.22	0.65	1.25	0.03	0.09	1.10	17.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
ISLAND	5.41	2.45	37.85	9.69	5.04	6.04	5.53	5.53	7.80	4.80	3.77	2.02	96.33	-	-	-	-	-	-	-	-	-	-	-	-	-	

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC
1980

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
PACIFIC																										
* * *																										
EAST OF 180TH																										
MIDDIAN																										
ABUSUFU	12.08		12.42		13.95		11.65		34.14		12.44		13.52		27.13		19.48		27.27		10.56		18.75		213.19	
AFONO	-		9.09		15.04		8.62		30.33		11.60		15.28		15.52								17.89		-	
FALEASAO VILLAGE	14.56		19.44		16.76		20.46		25.65		16.45		15.11		19.16		8.22		16.58		11.20		21.99		205.90	
JOHNSTON IS WSO AP	R 1.34	-2.25	1.11	-.84	.84	-2.01	2.39	-.18	1.02	-1.20	.66	-.37	1.58	-.49	1.10	-1.48	-.86	-1.19	2.86	-.62	4.33	2.03	-.28	3.13	17.35	-10.71
MIDWAY SAND ISLAND	7.25	-2.58	4.66	-.94	.81	-2.19	.09	-2.28	4.17	-1.81	1.98	-.98	1.81	-.35	4.55	-.22	3.07	-.79	4.52	-.76	1.28	-2.67	7.17	2.88	39.60	-2.99
MALAEOA																										
PAGO PAGO WSO AP	R 9.36		10.69		18.17		9.55		21.36		-		-		-		-		-		-		-		-	
	9.73	-2.54	7.47	-6.69	14.84	-2.77	6.52	-5.74	19.50	-8.81	11.90	-2.49	4.14	-2.80	13.97	-6.57	15.47	-9.39	21.48	-9.38	7.43	-2.88	13.44	-1.41	145.69	17.35
* * *																										
WESTERN PACIFIC ISL.																										
NORTH OF 12 N																										
AGAT	1.03		16.05		1.86		1.14		8.73		7.89		17.44		6.74		22.63		17.42		5.43		6.40		106.56	
ANDERSEN AFB GUAM	1.46	-3.41	17.45	13.41	2.03	-.67	4.26	-.59	11.96	7.56	10.50	-5.86	11.81	-2.80	9.59	-1.72	25.71	-12.15	11.30	-2.73	8.00	-.04	6.55	-.69	120.62	34.57
CLARK AFB LUZON	.93	-.34	1	-.51	4.32	3.47	.17	-1.36	5.17	-1.29	2.51	-4.38	20.89	-8.43	10.35	-7.37	11.65	-2.19	7.29	-1.82	4.53	1.06	-.96	-.42	68.47	-6.40
DEODD	1.89		18.29		4.61		3.30		13.76		12.44		14.23		11.84		29.74		19.74		8.24		9.61		147.69	
GUAM NAS	1.21	-3.35	13.74	11.02	2.74	-.46	2.77	-1.06	10.34	-5.62	9.90	-4.99	9.69	-.59	10.76	-1.12	23.90	-9.77	11.31	-1.83	5.85	-2.87	6.66	1.59	108.87	23.81
GUAM WSO																										
INARAJAN AG STN	R 2.97	-3.09	14.79	10.53	3.42	-.48	2.92	-1.11	8.60	-4.11	7.96	-2.77	10.93	-1.34	9.42	-2.74	24.34	-10.26	12.02	-2.38	7.76	-.75	6.14	-.29	110.37	19.71
INARAJAN - NASA	2.95		12.40		6.39		6.07		10.75		9.16		13.50		20.00		45.02		25.93		11.76		11.05		174.98	
MANGILAO	2.06		13.37		3.59		3.63		9.32		11.28		10.04		7.64		36.35		13.35		5.93		6.61		123.15	
UMATAC	1.92		14.99		2.85		3.44		8.26		11.54		10.23		11.04		29.66		13.61		5.33		9.30		122.17	
	-.53		7.94		-		-		11.22		-		16.27		8.53		11.66		10.20		-		-		-	
WAKE ISLAND WSO AP																										
YIGO	R 1.18	-.70	1.54	-.33	1.11	-.49	2.02	-.20	1.50	-.75	1.00	-1.35	2.71	-1.74	3.92	-2.43	3.85	-1.84	4.81	-.64	3.08	-.06	-.28	-1.45	26.20	-11.20
	3.02		21.00		8.29		7.34		19.88		12.49		12.77		16.34		24.92		18.65		7.80		9.37		159.87	
* * *																										
CAROLINE AND																										
MARSHALL ISLANDS																										
KOROR WSO	R 8.72	-2.07	16.01	8.58	5.53	-2.26	18.80	10.11	10.02	-4.51	19.50	-5.75	12.40	-3.79	15.26	-.14	13.60	-.61	17.11	-4.52	12.17	-1.50	19.95	-7.08	169.07	25.38
KWAJALEIN MISSILE RGN	R 8.45	-4.71	2.82	4.47	1.20	-5.01	8.55	-2.64	26.86	17.15	9.29	-.64	13.75	-4.05	13.02	-2.82	14.42	-3.59	11.91	-.06	9.58	-1.88	4.27	-4.96	124.12	22.84
MAJURO WSO AP	R 8.11	-.85	9.70	2.72	5.05	-4.20	7.03	-3.28	11.34	-.81	6.73	-5.44	8.48	-5.16	13.89	-2.11	12.85	-1.54	9.25	-6.75	5.35	-10.03	10.56	-1.32	108.34	-34.55
METILANIM	10.72		17.44		7.10		20.71		37.84		25.61		14.28		10.17		10.32		11.70		5.48		12.72		179.79	
PONAPE WSO	R 14.01	-2.26	18.63	7.19	8.11	-6.93	15.10	-4.48	38.43	19.00	23.21	-7.55	15.87	-1.95	15.79	-.91	15.32	-1.44	11.70	-4.72	7.96	-9.21	10.07	-5.88	194.20	-.48
TRUK MOEN I WSO AP																										
YAP WSO AP	R 13.91	-5.32	5.96	-.44	8.14	-.16	6.55	-6.62	18.26	-2.52	12.88	-.29	17.26	-1.85	12.78	-.66	8.50	-4.57	18.91	-5.52	2.98	-9.01	18.44	-4.52	144.57	-1.12
	2.12	-6.12	4.60	-.81	6.42	-.84	7.72	-1.74	10.57	-.54	13.52	-2.62	17.86	-3.20	9.52	-5.62	12.71	-.38	13.41	-.99	7.20	-2.83	14.52	-4.64	120.35	-1.19

See Reference Notes Following Station Index

Table 3

TEMPERATURE EXTREMES

HAWAII AND PACIFIC
1980

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
HAWAII					PACIFIC				
* * *					* * *				
ISLAND OF KAUAI					EAST OF 180TH MERIDIAN				
KANALOHULUMULU 1075	78	9- 8+	32	2- 5	JOHNSTON IS WSO AP	89	10- 4+	69	1-24
KEKAHA 944	-	-	-	-	MIDWAY SAND ISLAND	89	10- 5+	49	1-10
KILAUEA POINT 1133	-	-	-	-	PAGO PAGO WSO AP	92	4-19	69	7- 7
LIHUE WSO AP 1020.1	87	11-30	57	1-26	* * *				
WAIHAI LOWER 1054	82	11-30+	48	2-18	WESTERN PACIFIC ISL, NORTH OF 12 N				
WAIIMEA 947	92	7-25	56	1-19	ANDERSEN AFB GUAM				
* * *					CLARK AFB LUZON	88	10-31	66	8- 2
ISLAND OF OAHU					GUAM NAS	99	5- 8+	64	12-25
ALOHA STADIUM-HALAWA	-	-	-	-	WAKE ISLAND WSO AP	92	8- 7+	70	1- 6
B Y U LAIE 903.1	91	12- 9	56	1-26		95	9-14	66	1-29
HONOLULU OBSERV 702.2	92	9-30+	54	1-25+					
HONOLULU WSO AP 703	91	10- 6+	56	1-26					
KANEOME MAUKA 781	87	10- 1+	-	-					
KII-KAHUKU 911	89	12-13	-	-					
MANOA LYON ARBORETUM	90	10- 5+	55	2-28+					
OPAEULA 870	94	10- 8	52	12-18					
PUU MANAWAHUA 725.6	86	10- 4	54	1-25+					
WAIALUA 847	92	10- 3+	50	1-26					
WAIKIKI 717.2	92	11- 6+	55	1-24+					
WAIMANALO EXP FM 795.1	88	9- 9	55	1-26					
* * *									
ISLAND OF MOLOKAI									
MOLOKAI AP 524	91	9-24	55	2-19					
* * *									
ISLAND OF LANAI									
LANAI AIRPORT 656	85	10- 7+	52	11-22					
LANAI CITY 672	84	11-14	52	1-27+					
* * *									
ISLAND OF MAUI									
HALEAKALA R S 338	74	9- 7	32	1-24+					
HANA AIRPORT 355	-	-	-	-					
KAANAPALI AP 453.1	93	8-10	54	1-20					
KAHULUI WSO 398 AP	94	7- 8	55	1-20					
KAILUA 446	83	12-26	57	1-24					
KEAWAKAPU BEACH 260.2	-	-	55	1-20					
KULA BRANCH STN 324.5	80	9-29	43	1-25					
KULA HOSPITAL 267	78	9-25+	45	1-26+					
LAHAINA 361	94	10- 6+	54	1-25+					
* * *									
ISLAND OF HAWAII									
HAWAII VOLCNS NP HQ 54	80	10- 5+	39	1-21+					
HILO WSO AP 87	93	12-14	54	1-21+					
KAINALIU 73.2	84	10-19+	54	1-27+					
KAMUELA 192.2	-	-	-	-					
KAPOHO BEACH 93.11	92	6-29	57	1-21+					
KE-AHOLE PT 68.13	95	8-30+	-	-					
KULANI CAMP 79	78	9-27	31	1-25+					
LALAMILO FLD O 191.1	-	-	-	-					
MAUNA LOA SLOPE OBS	66	8-13	-	-					
MOUNTAIN VIEW 91	-	-	48	1-26+					
NAALEHU 14	89	12-21	52	1-21+					
OOKALA 223	85	1-12	57	1-20					
OPITHALE 2 24.1	87	9-28+	50	1-20					
PUUKOHOLA HEIAU 98.1	95	4- 5	51	10-25+					
SOUTH KONA 2.31	92	8- 9	46	1-25					
UPOLU POINT USCG 159.2	92	8-28+	61	8-31+					

See Reference Notes Following Station Index

SOIL TEMPERATURES

HAWAII

1960

Station	Depth	Time	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
			Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes
KEKAHA 944	(IN)																											
		4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86.1	97.76	86.1	95.78	83.4	93.75	78.4	85.72	75.5	84.68	-	-
KII-KAHUKU 911	(IN)																											
		4	-	-	-	-	-	-	-	-	-	-	-	85.74	-	88.75	82.6	90.76	80.8	87.75	78.7	87.72	75.5	81.72	72.8	77.67	-	90
MANOA LYON APPROPETUM	(IN)																											
		4	-	-	-	-	-	-	-	-	-	74.1	78.70	74.8	80.72	76.0	82.72	77.1	81.73	78.6	83.72	76.6	82.73	74.9	79.73	72.7	76.69	-
WAIALUA 847	(IN)																											
		4	-	-	-	-	-	-	-	-	-	-	-	102.73	-	104.74	-	105.66	-	104.73	-	99.69	-	84	-	82.61	-	105
KULA BRANCH STN 324.5	(IN)																											
		4	-	-	-	-	-	73.62	68.6	74.62	-	75.66	-	76	71.6	76.68	-	76.68	71.6	-	70.2	75.67	-	-	-	72.61	-	76
KAINALIU 73.2	(IN)																											
		4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77.2	85.73	-	79.71	-	80.69	-	-
LALAMILO FLD 191.1	(IN)																											
		4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73.9	78	73.1	79.68	-	77.65	-	72.62	-	-	

See Reference Notes Following Station Index

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII AND PACIFIC
1980

Station		Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
HAWAII														
* * *														
ISLAND OF KAUAI														
LIHUE WSO AP 1020.1	EVAP	6.538	5.50	8.26	8.42	8.848	8.76	9.62	9.97	8.438	7.19	6.13	6.07	93.72
	WIND	36988	2688	7934	6897	5266	53008	-	5304	4554	4778	43088	3062	-
	MAX	75.4	76.8	77.4	78.9	82.0	82.5	83.5	85.7	84.4	84.6	86.0	83.4	81.7
	MIN	56.5	55.8	60.4	61.7	63.5	64.4	66.1	65.0	65.9	66.1	67.2	64.3	63.1
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	6.778	6.508	9.44	11.67	13.25	12.37	12.93	11.44	10.10	10.34	9.60	5.00	119.41
	WIND	1285	778	1219	978	967	833	852	725	640	743	651	871	10542
	MAX	81.9	85.1	87.1	90.0	92.0	92.5	93.1	93.3	93.0	91.0	87.5	84.2	89.2
	MIN	62.3	60.6	64.0	65.7	67.3	67.5	69.0	68.7	68.6	66.5	64.6	63.3	65.7
PACIFIC														
JOHNSTON IS WSO AP	EVAP	8.34	7.68	9.99	9.67	10.518	10.64	10.53	10.76	8.85	10.168	8.058	8.20	113.38
	WIND	5095	3838	5592	6348	5026	5290	5111	4911	4595	5231	4889	3488	59414
PAGO PAGO WSO AP	EVAP	7.948	6.968	7.148	6.588	-	6.608	5.388	7.708	7.468	-	7.198	7.708	-
	WIND	1727	1858	2191	3004	3499	4832	4427	5156	4487	3842	2883	2289	40195
	MAX	95.7	96.8	96.6	93.7	89.5	87.6	88.2	89.2	92.8	87.1	89.8	94.3	91.8
	MIN	74.2	73.6	71.9	70.4	73.1	73.6	71.8	71.5	73.5	73.1	73.6	73.1	72.8
* * *														
WESTERN PACIFIC ISL, NORTH OF 12 N														
GUAM WSMO	EVAP	7.73	6.438	7.85	7.93	8.05	6.91	6.338	4.848	5.148	5.988	7.10	6.208	80.49
	WIND	3747	3875	4325	4167	4534	3545	2911	1519	1506	2217	2649	2364	37359
	MAX	83.5	82.5	84.9	86.8	86.7	87.7	88.4	89.5	87.8	87.9	87.4	86.1	86.6
	MIN	66.9	68.7	68.1	69.2	70.5	70.7	71.0	72.0	71.9	71.7	71.8	69.5	70.2
* * *														
CAROLINE AND MARSHALL ISLANDS														
YAP WSO AP	EVAP	5.41	6.16	6.96	6.878	6.328	5.978	6.258	5.96	4.78	6.548	5.24	5.558	72.01
	WIND	2686	2926	3012	2468	1616	1124	1803	1540	2651	1536	1580	1851	24793
	MAX	88.6	88.3	89.4	92.2	91.9	90.4	89.5	92.2	88.5	90.8	90.6	88.4	90.1
	MIN	72.1	71.8	71.5	72.7	74.0	73.5	72.9	73.4	72.5	72.8	72.8	71.6	72.6

See Reference Notes Following Station Index

STATION INDEX

HAWAII AND PACIFIC
1980

Station	Index No.	Division No.	County	Drainage †	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV 983	0140	02	KOLOA		221 57	159 32	1610						
ANAHOLA 1114	0145	01	KAWAIIHAU		122 08	159 18	180		51				2 C
BRYDESWOOD STA 985	0240	02	KOLOA		221 56	159 32	720		72				2
EAST LAWA 934	0456	02	KOLOA		221 55	159 30	440		80				2
ELEELE 927	0470	02	KOLOA		221 54	159 35	150		81				2
HALAULA 1110	0935	01	KAWAIIHAU		122 07	159 19	253		80				2
HALENANAO 1006	1038	02	LIHUE		221 58	159 26	490		50				2
HANAHANAPUNI 1055.2	1140	02	KAUAI		222 03	159 25	600						C
HANAIEI TUNNEL 1053	1170	01	KAWAIIHAU		122 05	159 28	1218		3				2
HUKIPO 945	2161	03	WAIIMEA		321 59	159 41	800		41				2
ILIILILIULA INTAKE 1050	2222	02	LIHUE		222 02	159 28	1050		47				2
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI		122 09	159 34	690		17				2
KANALOHULUHULU 1075	3099	03	WAIIMEA		322 08	159 40	3600	17	27				1 2 3 C
KANEHA RESERVOIR 1092	3104	01	KAWAIIHAU		122 08	159 23	830		19				2
KAPAA STABLES 1104	3159	01	KAWAIIHAU		122 05	159 20	175						C
KEALIA 1112	3982	01	KAWAIIHAU		122 06	159 19	9		82				2
KEKAHA 944	4272	03	WAIIMEA		321 58	159 43	9	1	89				1 2 3 C
KILAUEA 1134	4561	01	HANAIEI		122 13	159 25	320		96				2 C
KILAUEA POINT 1133	4568	01	HANAIEI		122 14	159 24	180	30	31				1 2 3
KOLO 1033	4735	03	WAIIMEA		322 04	159 46	36		45				2
KOLOA 936	4742	02	KOLOA		221 55	159 28	240		95				2
KOLOA MAUKA 994	4750	02	KOLOA		221 57	159 29	640		77				2
KOLOKO RES 1137	4758	01	KAWAIIHAU		122 11	159 23	560		45				2
KUKUIULA 935	4950	02	KOLOA		221 54	159 30	100		79				2
LIHUE VARIETY ST 10621A	5560	02	LIHUE		222 01	159 23	380		19				C
LIHUE 1020	5575	02	LIHUE		221 59	159 22	207		77				2
LIHUE WSO AP 1020.1	5580	02	LIHUE		221 59	159 21	103	31	31	27			1 2 34C
MAHAULEPU 941.1	5710	02	KOLOA		221 54	159 25	80		3		FEB		2
MAKAWELI 965	5864	03	WAIIMEA		321 55	159 38	140		90				2
MANA 1026	6082	03	WAIIMEA		322 02	159 46	20		77				2
MOHIHI UPR CROSS 1083	6433	01	WAIIMEA		322 07	159 36	3500		17				2
MOLOAA 1145	6529	01	KAWAIIHAU		122 11	159 20	330		55				2
MOUNT WAIKALELE 1047	6565	03	WAIIMEA		222 04	159 30	5148		34				2
NIU RIDGE 1035	6850	03	WAIIMEA		322 02	159 44	1250		42				2
N WAILUA DITCH 1051	6888	02	LIHUE		222 04	159 28	1110		54				2
N WAILUA RIVER 1055	6893	02	KIHUE		222 04	159 26	650		3				2
PH WAINIHA 1115	8155	01	HANAIEI		122 12	159 34	101		74				2 C
PPINCEVILLE RANCH 1117	8165	01	HANAIEI		122 13	159 29	295		72				2 C
PUEHU RIDGE 1040	8205	03	WAIIMEA		322 01	159 42	1600		42				2
PUHI 1013	8217	02	LIHUE		221 58	159 24	329		46				2
WAHIAWA 930	8941	02	KOLOA		221 54	159 34	215		77				2 C
WAIKAI LOWER 1054	8958	02	LIHUE		222 01	159 27	565	27	52				1 2 3
WAIKAI UPPER 1052	8966	02	LIHUE		222 01	159 28	780		49				2
WAIKAI 943	9253	03	WAIIMEA		321 59	159 43	10		87				2
WAILUA KAI 1065	9467	02	LIHUE		222 02	159 21	50		19				2
WAIKAI 947	9629	03	WAIIMEA		321 58	159 41	20	3	69				1 2 3
WEST LAWA 931	9955	02	KOLOA		221 54	159 31	210		80				2
ISLAND OF OAHU													
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO		121 26	157 51	320						C
ALOHA STADIUM-HALAWA	0172	03	OAHU		321 23	157 56	40	6	6				1 2 3
BERETANIA PUMPING STA	0211	02	HONOLULU		221 19	157 51	20		23				2
B Y U LAIE 903.1	0240	01	KOOLAUPOKO		121 39	157 56	20	9	9				1 2 3
CAMPBELL IND PK 702.5	0248	02	OAHU		321 19	158 07	10		10				2
CAMP 84 807	0300	03	EWA		321 26	158 04	760						C
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO		121 26	157 47	15		24				2
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU		221 21	157 50	565						C
EWA PLANTATION 741	0507	03	EWA		321 21	158 02	5		90				2
HALAWA SHAFT 771.2	0964	02	HONOLULU		221 23	157 54	170						C
HAWAII KAI CRSE 724.19	1308	02	OAHU		221 18	157 39	21						C
HOKULOA 725.2	1540	03	EWA		321 24	158 06	2260						C
HONOLULU OBSERV 702.2	1918	03	EWA		321 19	158 00	5	5	19	19			1 2 34
HONOLULU WSO AP 703	1919	02	HONOLULU		221 20	157 55	7	35	35				1 2 3 C
KAENA POINT 841.3	2410	04	WAILUA		421 34	158 15	1240		9				2
KAHANA 883	2462	01	KOOLAULOA		121 31	157 54	800		64				2
KAHUKU 912	2570	01	KOOLAULOA		121 42	157 59	15						C
KAILUA FIRE STA 791.3	2633	01	KOOLAUPOKO		121 24	157 45	10						C
KALIHI RES SITE 777	2960	02	HONOLULU		221 23	157 50	910		54				2
KANEHE MAUKA 781	3113	01	KOOLAUPOKO		121 25	157 49	190	41	53				1 2 3
KAPALAMA 773	3268	02	HONOLULU		221 21	157 52	614		59				2
KAWAIIHAPAI 841	3734	05	WAILUA		521 35	158 11	40		52				2
KEMOO CAMP 8 855	4318	05	WAILUA		521 33	158 05	725		57				2
KII-KAHUKU 911	4500	01	AHU		121 41	157 58	15	1	1		MAR		1 2
KOOLAU DAM 833	4766	05	WAIKAI		521 30	157 58	1160		67				2
LULUKU 781.7	5655	01	KOOLAUPOKO		121 24	157 49	280						C
MAKAHA PUMP 800.2	5782	04	OAHU		421 29	158 12	400						C

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ISLAND OF OAHU													
MAKAKILO 730.1	5789	03	OAHU		321 21	158 06	300		5				2
MANOA 712.1	6122	02	HONOLULU		221 19	157 49	220		63				2
MANOA LYON ARBORETUM	6128	02	OAHU		221 20	157 48	500	6	6				1 2 3
MANOA TUNNEL 2 716	6170	02	HONOLULU		221 20	157 48	650		54				2
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		121 21	157 46	395						C
MOANALUA 770	6395	02	HONOLULU		221 21	157 54	20		81				2
MOUNT KAALA 844	6553	04	WAIANAE		421 31	158 09	4025						C
NUUANU PES 4 783	6928	02	HONOLULU		221 21	157 49	1048		77				2
NUUANU RESERVR 5 775	6933	02	HONOLULU		221 21	157 50	410		92				2
OPAEULA 870	7150	05	WAIALUA		521 34	158 02	1060	76					1 3 C
PAIKO DR 723.4	7540	02	HONOLULU		221 17	157 44	10		5				2
PALI GOLF COURSE 78P.1	7656	01	OAHU		121 23	157 47	480		10				2
PALOLO VALLEY 718	7664	02	HONOLULU		221 20	157 46	995						2
PAUOA FLATS 784	7810	02	HONOLULU		221 21	157 48	1640		54				2
PEARL COUNTRY CL 760.2	7942	03	OAHU		321 23	157 56	120						C
PUNALUU PUMP 905.2	8314	01	KOOLAULO		121 35	157 54	20						C
PUNCHBOWL CRATER 709	8316	02	HONOLULU		221 19	157 51	360		31				2
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		121 38	158 02	750						C
PUU MANAWAHUA 725.6	8500	03	OAHU		321 23	158 06	1690	2	4				1 2
TANTALUS 2 780.5	8738	02	HONOLULU		221 20	157 50	1330		18				2
UNIV OF HAWAII 713	8815	02	HONOLULU		221 18	157 49	79		56				2
WAHIWA DAM 863	8945	05	WAIHAWA		521 30	158 03	854						C
WAIHOLE 837	8964	01	KOOLAUPOKO		121 28	157 53	745		65				2
WAIALAE KAHALA 715	9185	02	HONOLULU		221 16	157 46	10		59				2
WAIALAE 896.3	9190	01	KOOLAULO		121 41	158 02	33	10	10		10/79		1 2 3
WAIALUA 847	9195	05	WAIALUA		521 35	158 07	32	74	81				1 2 3 C
WAIANAE 798.2	9231	04	WAIANAE		421 27	158 11	50		86				2
WAIANA 836	9261	03	EWA		321 28	157 56	800		65				2
WAIKANE 885	9340	01	KOOLAUPOKO		121 30	157 53	760		65				2
WAIKIKI 717.2	9397	02	HONOLULU		221 16	157 49	10	17	17				1 2 3
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		221 18	157 45	180						C
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		121 20	157 43	60	12	12				1 2
WAIMANALO NONOKI 795.2	9534	01	OAHU		121 20	157 43	120						C
WAIPIA 892	9593	05	WAIALUA		521 38	158 04	330						C
WAIPIAHU 750	9738	03	EWA		321 23	158 01	59		83				2
WILHELMINA RISE 721	9980	02	HONOLULU		221 18	157 47	1100		54				2
ISLAND OF MOLOKAI													
HALAWA VALLEY 542.9	1400	01	MOLOKAI		21 10	156 45	5		1		FEB		2
KALAUPAPA 563	2896	01	MOLOKAI		121 12	156 59	30		17				2
KAUNAKAKAI 536	3541	01	MOLOKAI		121 06	157 01	12		27				2
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI		121 06	157 01	70						C
KEONELELE PENS 551	4394	01	MOLOKAI		121 12	157 12	560		18				2
KFPUMI-SHERATON 550.2	4500	01	MOLOKAI		121 11	157 14	140						C
KUALAPUU 534	4778	01	MOLOKAI		121 09	157 02	825						C
MAUNALO 511	6190	01	MOLOKAI		121 08	157 13	1070						C
MOLOKAI AP 524	6534	01	MOLOKAI		121 09	157 06	450	30	32				1 2 3
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI		121 09	156 44	700						C
WAIKOLU 540	9404	01	MOLOKAI		121 08	156 55	3550		17				2
ISLAND OF LANAI													
KANEPUU 690	3130	01	LAHAINA		120 52	157 00	1650		27				2
KAUMALAPAU HARBOR 658	3461	01	LAHAINA		120 47	157 00	30		19				2
LANAI AIRPORT 656	5275	01	LAHAINA		120 48	156 57	1300	7	7				1 2 3
LANAI CITY 672	5286	01	LAHAINA		120 50	156 55	1620	48	52				1 2 3 C
MAHANA 694	5704	01	LAHAINA		120 52	156 55	1540		27				2
MALAEUA 676	6012	01	LAHAINA		120 46	156 55	1150		19				2
WAIKAEKUA 685	9021	01	LAHAINA		120 47	156 52	2000		27				2
ISLAND OF MAUI													
ALUAKI 252	0175	02	HANA		220 37	156 20	2060		19				2
FIELD 46 474	0541	04	LAHAINA		420 59	156 38	1050						C
HELEAAU 477	0790	04	LAHAINA		420 57	156 36	2980		3				2
HALEAKALA EXP FARM 434A	0995	01	MAKAWAO		120 51	156 18	2100		60				2
HALEAKALA RANCH 432	0999	01	MAKAWAO		120 50	156 19	1850		90				2
HALEAKALA R S 338	1004	02	MAKAWAO		220 46	156 15	7030	36	43				1 2 3
HALEIALE 423	1075	01	MAKAWAO		120 52	156 21	1070		18				2
HAKAUPOKO 485	1086	01	MAKAWAO		120 55	156 21	320		98				2
HANA AIRPORT 355	1129	01	HANA		120 48	156 01	61	31	31				1 2 3 C
HOLUA CABIN 259.5	1552	02	MAKAWAO		220 45	156 13	6930		18				2
HONOKOHU 480	1882	04	LAHAINA		420 58	156 36	870		17				2
HONOKOHU 493	1887	04	LAHAINA		421 00	156 39	135		54				2
HONOLUA FIELD 49 494	1914	04	LAHAINA		421 01	156 38	125		3				2
HONOMANU GULCH 341	1935	01	MAKAWAO		120 47	156 14	6280		46				2
KAANAPALI AP 453.1	2307	04	LAHAINA		420 56	156 42	8	14	14				1 2 3
KAHAKULO MAUKA 482.3	2453	03	WAILUKU		420 59	156 33	650						C
KAHOMA INTAKE 374	2552	04	LAHAINA		420 54	156 38	2000		71				2

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ISLAND OF MAUI													
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	320 54	156 26	48	26	26				1 2 3 C
KAILIILI 436	A	2630	01	MAKAWAO	120 51	156 16	2520		57				2
KAILUA 446		2679	01	MAKAWAO	120 54	156 13	700	69	78				1 2 3
KAUULA INTAKE 375	M	3433	04	LAHAINA	420 53	156 78	1585		63				2
KAUPO RANCH HOUSE 259		3576	02	HANA	220 39	156 08	1020						C
KEAHUA 410		3910	03	MAKAWAO	320 52	156 23	480		63				2
KEANAE 346	M	4091	01	HANA	120 50	156 10	980		77				2
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	220 42	156 27	20		18				1 2 3 C
KIHEI 311		4489	03	WAILUKU	320 47	156 27	90		59				2
KIPAHULU 258		4634	01	HANA	120 39	156 04	260		81				2
KUKUI 380	A	4887	04	LAHAINA	420 54	156 35	5788		3				2
KULA BRANCH STN 324.5		5000	02	MAKAWAO	220 46	156 70	3050	3	3				1 2 3 CG
KULA HOSPITAL 267		5006	02	MAKAWAO	220 42	156 22	3004	44	44				1 2 3
LAHAINA 361		5177	04	LAHAINA	420 53	156 41	45	37	68				1 2 3 C
LAUNIUPOKO INTAKE 376 A		5404	04	LAHAINA	420 51	156 37	1280		68				2
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	420 51	156 39	220		55				2
LUPI UPPER 442	A	5665	01	MAKAWAO	120 53	156 15	1240		84				2
MAHINAHINA 466	A	5715	04	LAHAINA	420 57	156 40	715		68				2
MOKUPEA 475		6521	04	LAHAINA	420 59	156 37	1290		3				2
NAKALELE FIELD 60 497 A	A	6645	04	LAHAINA	421 02	156 36	340		44				2
OLINDA 332	M	7040	01	MAKAWAO	120 48	156 17	4127		64				2
OLOWALU 296.1		7059	04	LAHAINA	420 49	156 17	20		31				2
PAAKEA 350	A	7194	01	HANA	120 49	156 07	1260		77				2 C
PAIA 406		7566	01	WAILUKU	120 55	156 23	170		77				2
PANILEIHULU 259.2	A	7674	02	HANA	220 41	156 08	3570		18				2
PEAHI 488.6		7952	01	MAUI	120 54	156 17	830						C
POHAKA BRIDGE 307.2	M	8060	03	WAILUKU	320 49	156 31	167		28				2
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	220 41	156 20	6150		18				2
PUOHOKAMOA 2 343	A	8336	01	HANA	120 50	156 13	2980		53				2
PUUNENE 396		8543	03	WAILUKU	320 53	156 27	60		77				2
PUU PAKI 352	A	8553	01	HANA	120 46	156 03	2160						S
SPRECKELSVILLE 400.2		8688	03	WAILUKU	320 54	156 25	85		74				2
TWIN GATES 261.3	A	8742	03	MAKAWAO	320 46	156 23	1310		18				2
UKULELE 333	A	8744	01	MAKAWAO	120 48	156 15	5230		76				2
UKUMEHAME 301	M	8750	04	LAHAINA	420 48	156 35	75		52				2
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	220 39	156 24	1900		27				2 C
WAHIKULI 364	M	8959	04	LAHAINA	420 54	156 40	580		61				2
WAIIEHU CAMP 484		9275	03	WAILUKU	320 55	156 31	320		72				2
WAIHEE VALLEY 482	M	9315	04	WAILUKU	420 57	156 32	300		32				2
WAIKAMOI 449	A	9332	01	HANA	120 52	156 12	1200		75				2
WAIKAMOI DAM 336		9335	01	MAKAWAO	120 49	156 14	4320						C
WAIKAPU 390	A	9376	03	WAILUKU	320 51	156 31	370						C
WAILUA IKI 348		9460	01	HANA	120 48	156 09	2630						S
WAILUKU 386	A	9484	03	WAILUKU	320 54	156 30	180		80				2
WAILOPAI RANCH 256	A	9765	02	HANA	220 38	156 12	220		83				2
ISLAND OF HAWAII													
AHUA UMI 75	M	0040	05	N KONA	519 38	155 47	5220		58				2
AMAUULU 89.2	M	0150	02	HILO	219 44	155 09	1490		28				2
HA'INA 214		0840	01	HAMAKUA	120 06	155 28	461		92				2
HA'KALAU 142		0905	02	S HILO	219 54	155 08	105		90				2
HALEMAUMAU 52	A	1033	03	KA'U	319 24	155 17	3648		49				2
HALEPOHAKU 111	M	1065	02	HAMAKUA	219 46	155 28	9220		42				2
HAWAII VOLCNS NP HQ 54		1303	02	KA'U	219 26	155 16	3871	68	69				1 2 3 C
HAWI 168	M	1339	01	N KOHALA	120 14	155 50	580		82				2
HAW'N OC VW EST 3.9		1385	02	KA'U	319 07	155 47	2900				JUL		C
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	219 41	155 10	1600						C
HILO WSO AP 87	M	1492	02	S HILO	219 43	155 04	36	35	39				1 2 3 C
HOLUALOA 70	M	1557	04	N KONA	419 38	155 55	3220		53			APR	2
HONAU'AU 27		1665	04	S KONA	419 25	155 53	940		43				2
HONOHINA 137		1701	02	N HILO	219 56	155 09	300		88				2
HONOHU MAUKA 138		1960	02	S HILO	219 51	155 09	1100						C
HONUAULA 71	A	2047	04	N KONA	419 40	155 53	6250		52			APR	2
HUALALAI 72	A	2151	04	N KONA	419 42	155 52	8190		53			APR	2
HUEHUE 92.1	A	2156	04	N KONA	419 45	155 59	1960		78				2
KA'AWALOA 29	M	2327	04	SOUTH KONA	419 30	155 55	1340		40				2
KAHIAWAI MAUKA 3.6		2512	03	KA'U	319 08	155 46	4120					JUL	C
KAHUA RCH HQTRS 176.3		2600	01	HAWAII	120 08	155 48	3240						C
KAILUA HEIGHTS 68.1 ²		2686	04	KONA	419 37	155 58	500						2
KAINALIU 73.2		2751	04	N KONA	419 32	155 56	1500	46	51				1 2 3 6
KALAOA 69.22		2887	04	HAWAII	419 44	155 59	2000		6				2
KALAPANA 1 67.8		2894	02	S HILO	219 20	155 02	10		15				2
KAMA'OA 2 5	A	3048	03	KA'U	319 02	155 40	1375		27				2
KAMUELA 192.2		3077	01	S KOHALA	120 01	155 40	2670	45	91				2
KAPAPALA RANCH 36	M	3300	03	KA'U	319 17	155 27	2140		95				2
KAPOHO BEACH 93.11		3368	02	HAWAII	119 30	154 49	10	5	6				1 2 3
KAPOHO LANDING 93.5 A	A	3369	02	PUNA	219 30	154 52	290		19				2

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ISLAND OF HAWAII														
KAWAINUI LOWER 193	A	7770	01	HAMAKUA		120 05	155 39	1080		71				2
KAAU 92		3872	02	PUNA		219 38	155 02	285		19				2
KF-AHOLE PT 68.13		3910	04	N KONA		419 44	156 04	20	1	1		MAR		1 2
KEAIIWA CAMP 22.1		3925	03	KAU		319 14	155 29	1700						C
KALAKEKUA 3 29.11		3985	04	S KONA		419 31	155 55	1530						C
KEANAKOLU CAMP 124.2		4099	02	HAMAKUA		219 55	155 21	5280						C
KIOLAKAA A & F 6	A	4625	03	KAU		319 04	155 38	1925		52				2
KOHALA MISSION 175.1		4680	01	N KOHALA		120 14	155 48	537		91				2
KOIAWE LOWER 196	A	4685	01	HAMAKUA		120 05	155 38	720		71				2
KONA (KAILUA) 68.3	A	4764	04	N KONA		419 39	156 01	30						C
KONA VILLAGE 93.8		4765	04	N KONA		419 50	155 59	20		14				2
KUKAIIAU 222		4815	01	HAMAKUA		120 02	155 21	840		86				2
KUKUIHAELE HIC 199		4928	01	HAMAKUA		120 07	155 35	980		72				2
KUKUIHAELE MILL 206	A	4938	01	HAMAKUA		120 08	155 34	300		89				2
KULANI CAMP 79		5011	02	S HILO		219 33	155 18	5170	22	33				1 2 3
KULANI MAUKA 76	A	5018	05	N HILO		519 35	155 27	8300		30				2
KULANI SCHOOL SITE 78	A	5021	02	S HILO		219 35	155 20	5735		34				2
LALAMILLO FLD 0 191.1		5260	01	S KOHALA		120 01	155 41	2615	45	16		MAY		1 2 3 C
LANTHAU 68.2		5330	04	N KONA		419 40	155 58	1530		39				2
MAHAHALAU 103	A	5761	02	HAWAII		119 59	155 33	3820		10				2
MANUKA 2	A	6134	03	KAU		319 07	155 50	1760		52				2
MAUNA KEA OBS 111.2		6183	02	HAWAII		219 49	155 28	13770		10				2
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA		519 32	155 35	11150	25	26				1 2 3
MIDDLE PEN 147.1	A	6270	01	N KOHALA		120 06	155 50	1380		17				2
MCAULA 18	A	6407	03	KAU		319 11	155 30	600		62				2
MOUNTAIN VIEW 91		6552	02	PUNA		219 33	155 07	1530	44	81				1 2 3 C
NAALEHU 14	A	6588	03	KAU		319 04	155 35	800	27	92				1 2 3
NAPPOPOO 28	A	6697	04	S KONA		419 28	155 55	350		41				2
OOKALA 223		7131	02	N HILO		220 01	155 17	430	61	91				1 2 3 C
OPIHIHALE 2 24.1		7166	04	S KONA		419 16	155 53	1270	23	24				1 2 3
OPCHID LAND EST 91.5	A	7185	02	PUNA		219 34	155 00	445		18				2
PAUHAU 217		7204	01	HAMAKUA		120 05	155 26	415		91				2
PAUUILO 221		7312	01	HAMAKUA		120 03	155 22	800		78				2
PAHALA 21	A	7421	03	KAU		319 12	155 29	870		89				2
PAHOA 65		7457	02	PUNA		219 31	154 58	600		71				2
PAHOA SCHOOL SITE 64		7465	02	PUNA		219 30	154 57	683						C
PAPAIIKOU 144.1		7711	02	S HILO		219 47	155 06	190		82				2
PAPAIIKOU MAUKA 140.1	A	7721	02	S HILO		219 47	155 08	1285		55				2
PIIHONUA 89	A	8051	02	S HILO		219 44	155 10	1730		56				2
POHAKULOA 107	A	8063	02	HAMAKUA		219 45	155 32	6511						C
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII		520 02	155 50	140	5	5				1 2 3
PUU LEHUA 73	A	8460	04	N KONA		419 34	155 49	4880		58				2
PUUHONUA-O-HONAUNAU		8552	04	S KONA		419 25	155 55	15		11				2
PUU WAAWAA 94.1		8555	05	N KONA		519 47	155 51	2520						C
S GLENWOOD		8638	02	PUNA		219 28	155 08	2130		1		APR		2
SOUTH KONA 2.31		8650	03	HAWAII		319 06	155 45	2650	5	5				1 2 3
UPOLU POINT USCG 159.2		8830	01	N KOHALA		120 15	155 53	61	23	25				1 2 3
WAIKAKEA SCD 88.2		9025	02	S HILO		219 40	155 08	1050		29				2
WAIKALOA-BOIS CAS 95.8		9142	04	HAWAII		519 56	155 48	900		6				2
PACIFIC														
EAST OF 180TH MERIDIAN														
AASUFOU		4000	03	AMER SAMOA		14 19S	170 46W	1340		1		JAN		2
AFONO		4005	03	AMER SAMOA		14 16S	170 39W	6000		1		JAN		2
ATU'U		4060	03	TUTUILA		14 16S	170 41W	265						C
FALEASAO VILLAGE		4248	03	TAU'AMAN		14 14S	169 31W	16		12				2
JOHNSTON IS WSO AP	R	4320	01	LINE ISLANDS		16 44N	169 31W	10	25	25	19			1 2 3 4
MIDWAY SAND ISLAND		4490	07			28 13N	177 21W	10	28	28				1 2 3
MALAELOA		4594	03	TUTUILA		14 20N	170 46W	139						C
PAGO PAGO WSO AP	R	4690	03	AMER SAMOA		14 20S	170 43W	10	15	15	3			1 2 3 4
WESTERN PACIFIC ISL, NORTH OF 12 N														
ACAT		4000	03	GUAM		13 23N	144 39E	10		3				2
ANDERSEN AFB GUAM		4025	03	MARIANNA IS		13 35N	144 55E	624	26	26		AUG		1 2 3
CAPITOL HILL		4075	03	SAIPAN		15 13N	145 45E	672						C
CLARK AFB LUZON		4100	06	PHILIPPINE I		15 11N	120 33E	475	27	27				1 2 3
D'EDDO		4156	03	GUAM		13 31N	144 51E	350		3				2
FENA LAKE		4200	03	MARIANAS IS		13 22N	144 42E	60				JAN		C
GUAM NAS		4226	03	MARIANNA IS		13 29N	144 48E	254	24	24				1 2 3
GUAM WSO	P	4229	03	MARIANNA IS		13 33N	144 50E	361	24	24	21			1 2 3 4
INARAJAN AG STN		4275	03	GUAM		13 16N	144 45E	30		3				2
INARAJAN - NASA		4278	03	GUAM		13 18N	144 44E	280	3	3				1 2 3 C
MANGILAO		4468	03	MARIANNA IS		13 27N	144 49E	60		11				2
PITI		4670	03	GUAM		13 27N	144 41E	10						C

See Reference Notes Following Station Index

STATION INDEX

HAWAII AND PACIFIC
1980

Station	Index No.	Division No.	County	Drainage †	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
WESTERN PACIFIC ISL, NORTH OF 12 N													
ROTA	4800	03	MARIANNA IS		14 08N145 09E		47				JUL		C
SAIPAN INTL AP	4855	03	MARIANAS IS		15 07N145 44E		210						C
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N145 42E		9	22	22		OCT	1 2 3	
UMATAC	4885	03	GUAM		13 17N144 40E		190		3				2
WAKE ISLAND WSO AP R	4901	01	WAKE ISLAND		19 17N166 39E		12	33	39				1 2 3
YIGO	4950	03	GUAM		13 32N144 53E		525		3				2
CAROLINE AND MARSHALL ISLANDS													
ENEWETAK	4165	01	MARSHALL IS		11 21N162 21E		10	25	28		FEB	1 2 3	
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N139 48E		6	25	25				1 2 3
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N154 48E		10	13	18				1 2 3
KOROR WSO	4351	02	CAROLINE IS		7 20N134 29E		94	31	31				1 2 3
KWAJALEIN MISSILE RGN R	4375	01	MARSHALL IS		8 44N167 44E		7	28	28				1 2 3
LELE I KOSRAE	4395	02	KOSRAE		5 20N163 02E		7	22	22				1 2 3
MAJURO WSO AP R	4460	02	MARSHALL IS		7 05N171 23E		10	25	26				1 2 3
METALANIM	4482	02	PONAPE		6 51N158 19E		30	14	14				1 2 3
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N134 39E		10		21		FEB	FEB	2
PONAPE HOSPITAL	4745	02	PONAPE		6 58N158 14E		43						C
PONAPE WSO R	4751	02	CAROLINE IS		6 58N158 13E		123	30	30				1 2 3
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N153 44E		9	12	12				1 2 3
TRUK MOEN I WSO AP R	4851	02	CAROLINE IS		7 28N151 51E		5	30	31				1 2 3
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N143 55E		7	13	13				1 2 3
YAP WSO AP R	4951	02	CAROLINE IS		9 29N138 05E		44	32	32	3			1 2 34

See Reference Notes Following Station Index

MONTHLY AND SEASONAL COOLING DEGREE DAYS

SEASON OF 1980

HAWAII

STATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	NORMALS JAN-DEC
* * *														
ISLAND OF KAUAI														
KANALOHULU 1075	0	0	0	0	0	1	13	9	16	2	2	0	43	
KEKAHA 944									408	334	276	215		
KILAUEA POINT 1133		209	238				361		400	372				
LIHUE WSO AP 1020.1	229	186	258	261	330	353	417	438	429	369	328	283	3881	3719
WAIHAI LOWER 1054	144	77	143	169	223	229	244	230	269	233	206	119	2286	
WAIKOA 347	216	219		324	369		415	418	425	416	375	320		
* * *														
ISLAND OF OAHU														
ALPHA TACIUM HALAWA		236	287	303		388	439	444	436	431		306		
B Y U LAIE 903.1	186	157	221	234	323	353	399	396	467	402	387	271	3796	
HONOLULU OBSERV 702.2	204	171	294	332	385	398	453	459	457	420	355	266	4194	
HONOLULU WSO AP 703	222	220	317	340	418	442	501	504	503	476	395	295	4633	4221
KANEHOE MAUKA 781	229	236	292	310	389	399	426	453	456	457			3331	3299
KII-PAHUKU 911			259	277	320			405	428	415	343	288		
MANOA LYON ARBORETUM	155	164	149	171	262	252	289	316	363	331	297	242	2991	
OPAELUA 870	156	192	156	220	264	308	331	321	368	363	324	254	3257	1915
PUU MANAWAHUA 725.6	71	57	80	106	176	185	249	282	294	257	212	131	2100	
WAIALUA 847	178	138	184	211	299	292	359	381	394	345	284	266	3331	3025
WAIKIKI 717.2	253	224	345	357	424	434	477	477	481	456	389	335	4652	
WAIMANALO EXP FM 795.1	216	178	251	269	339	362	406	418	426	400	329	268	3862	
* * *														
ISLAND OF MOLOKAI														
MOLOKAI AP 524	173	189	235	234	327	358	389	390	409	420	360	256	3740	
* * *														
ISLAND OF LANAI														
LANAI AIRPORT 656	88	101	169	170	229	231	278	268	292	267	177	137	2407	
LANAI CITY 672	61	74	82	80	130	138	179	176	213	188	153	132	1606	1549
* * *														
ISLAND OF MAUI														
HALEAKALA R S 338	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HANA AIRPORT 355		229	280	311	378	394	433	454	425	384	365	305		
KAANAPALI AP 453.1	197	198	272	290	363	368	423	437	436	444	397	316	4141	
KAHULUI WSO 398 AP	266	253	335	334	442	457	512	488	484	462	401	347	4781	3732
KAILUA 446	142	148	119	143	206	215	225	249	235	231	200	189	2302	2089
KEAWAKAPU BEACH 260.2	228	234	285	308	394	395		451	428	357				
KULA BRANCH STN 324.5	7	2	11	0	14	21	54	63	93	62	13	20	360	
KULA HOSPITAL 267	2	4	2	0	6	16	31	21	54	25	11	8	180	365
LAHAINA 361	236	232	314	332	397	398	443	468	458	416	331	286	4311	3600
* * *														
ISLAND OF HAWAII														
HAWAII VOLCNS NP HQ 54	6	0	0	0	3	0	17	4	15	13	5	2	65	24
HILO WSO AP 87	213	227	234	293	390	385	405	316	328	313	269	295	3668	3066
KAINALIU 73.2	119	159	169	164	207	190	232	219	238	239	173	171	2280	
KAMUELA 192.2	25	7	10											
KAPOHO BEACH 93.11	272	305	288		383	393	421	405	418	411	376	351		
KE-AHOLE PT 68.13					400	421	457	508	514	509	419	393		
KULANI CAMP 79	0	0	0	0	0	0	0	0	0	3	0	0	3	
LALAMILO FLD 0 191.1						117	121	144	131	186		4		
MAUNA LOA SLOPE OBS		0		0	0	0	0	0	0	0	0	0		
MOUNTAIN VIEW 91	92	106	40	98	142	142	180	183	188	171	139	152	1633	1171
NAALEHU 14	158	208	200	208	233	255	304	303	300	319	300	257	3045	
OOKALA 223	182	180	168	194	266	281	292	317	309	310	260	248	3007	2807
OPIHIHALE 2 24.1	88	145	126	136	173	175	204	197	206	182	175	168	1975	
PUUKOHOLA HEIAU 98.1	261	284	371	422	427	403	468	440	461	382	369	314	4602	
SOUTH KONA 2.31	39	39	39	66	112	88	126	119	145	107	77	53	1010	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS

SEASON OF 1980

HAWAII

STATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	NORMALS JAN-DEC
UPOLU POINT USCG 159.2	249	291	235	247	317	343	412	402	415	417	358	367	4053	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS

SEASON OF 1980

PACIFIC

STATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	NORMALS JAN-DEC
* * *														
EAST OF 180TH MERIDIAN														
JOHNSTON IS WSO AP	404	373	442	442	490	503	541	552	545	528	466	459	5745	5086
MIDWAY SAND ISLAND	31	23	133	157	255	385	510	507	490	440	294	138	3363	
PAGO PAGO WSO AP	507	495	543	530	457	475	446	453	463	465	513	523	5870	5325
* * *														
WESTERN PACIFIC ISL, NORTH OF 12 N														
ANDERSEN AFB GUAM	446	400	440	471	481	494	507	477	444	523	515	493	5691	5337
CLARK AFB LUZON	410	407	496	554	579	604	554	549	535	550	508	451	6197	5663
GUAM NAS	464	443	470	514	538	547	566	577	500	533	541	516	6209	5728
GUAM WSMO	358	367	397	434	456	445	457	476	437	465	466	412	5170	5011
INARAJAN - NASA	441		479	427	496	452	477	497	467	497	458	460		
WAKE ISLAND WSO AP	400	326	418	446	493	542	603	580	593	540	506	477	5924	5455
* * *														
CAROLINE AND MARSHALL ISLANDS														
KOROR WSO	496	449	514	509	546	509	508	500	503	545	548	543	6170	
KWAJALEIN MISSILE RGN	528	501	576	515	517	529	542	557	526	560	519	551	6421	6164
MAJURO WSO AP	519	478	513	507	519	516	516	518	509	542	515	502	6154	
METALANIM	431	393	449	433	456	481	510	499	473	496	477	496	5594	
PONAPE WSO	531	488	557	530	502	507	514	512	487	515	511	544	6198	5652
TRUK MOEN I WSO AP	507	483	527	531	534	512	496	505	500	483	495	509	6082	5888
YAP WSO AP	496	449	503	510	522	483	489	513	467	498	480	486	5896	5916

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII

[illegible][illegible][illegible]

REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

AVERAGES: Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1941-1970. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be published annually as a Supplemental bulletin.

DAILY SOIL TEMPERATURES TABLES: Included are all soil temperature stations with any data published for the calendar year, whether or not opened or closed during the year. See the reference notes of the monthly issues for information on individual stations as to soil type, ground cover, and degree of slope.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (dates) or months.
- * Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the annual issue of this publication.

Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.

The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

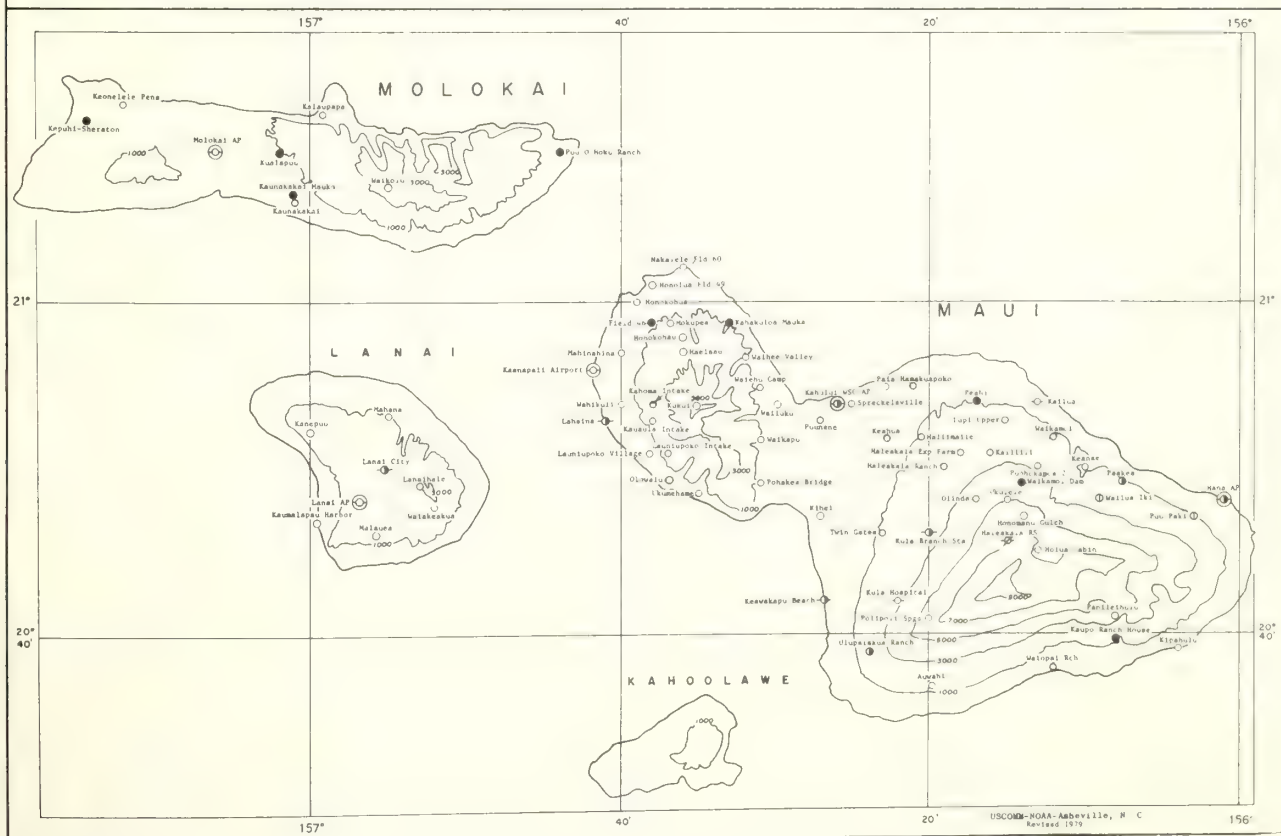
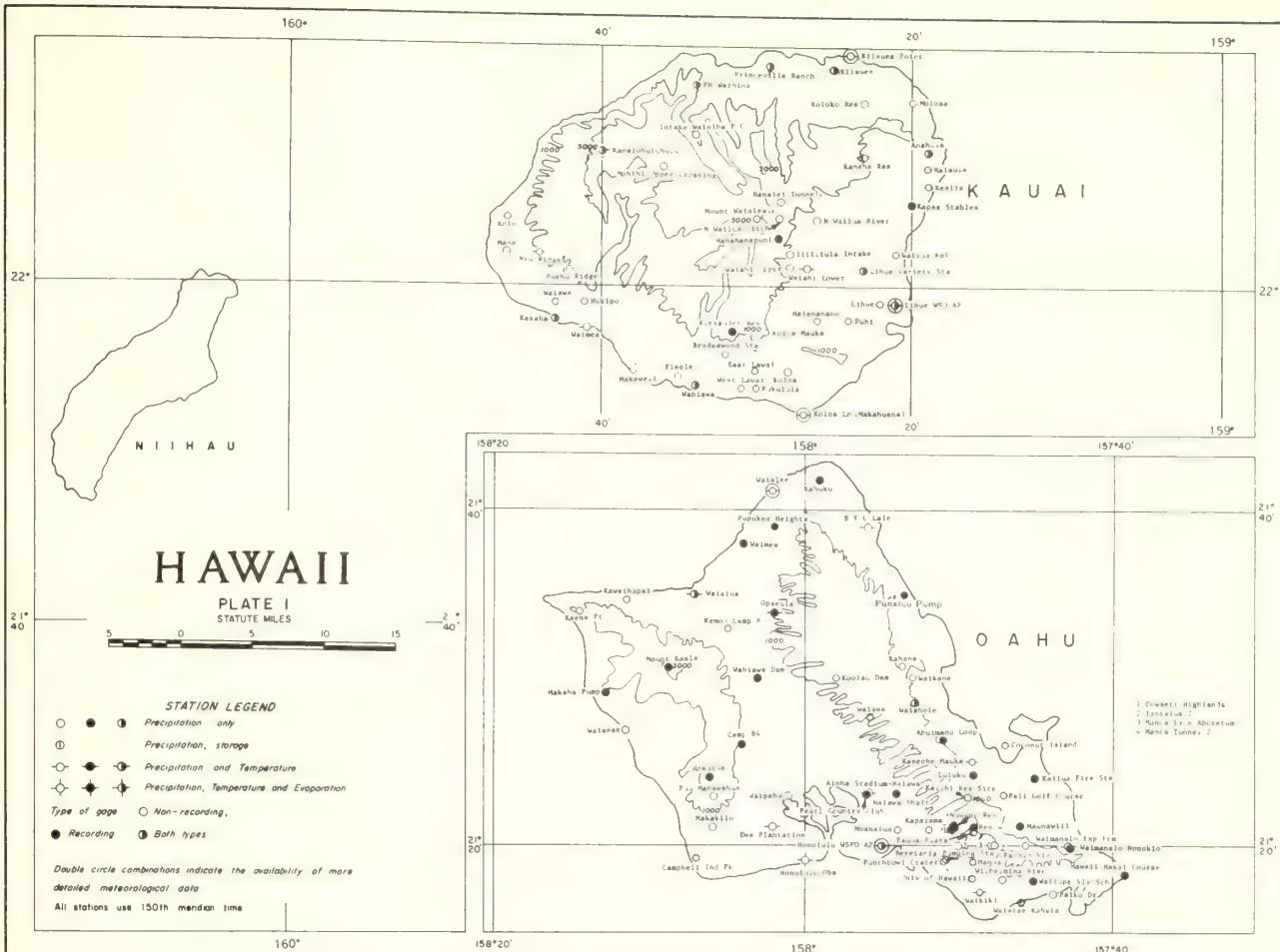
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the MONTHLY WEATHER REVIEW, CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA. The first may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, while the latter two may be obtained from the National Climatic Center, Federal Building, Asheville, N.C. 28801.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

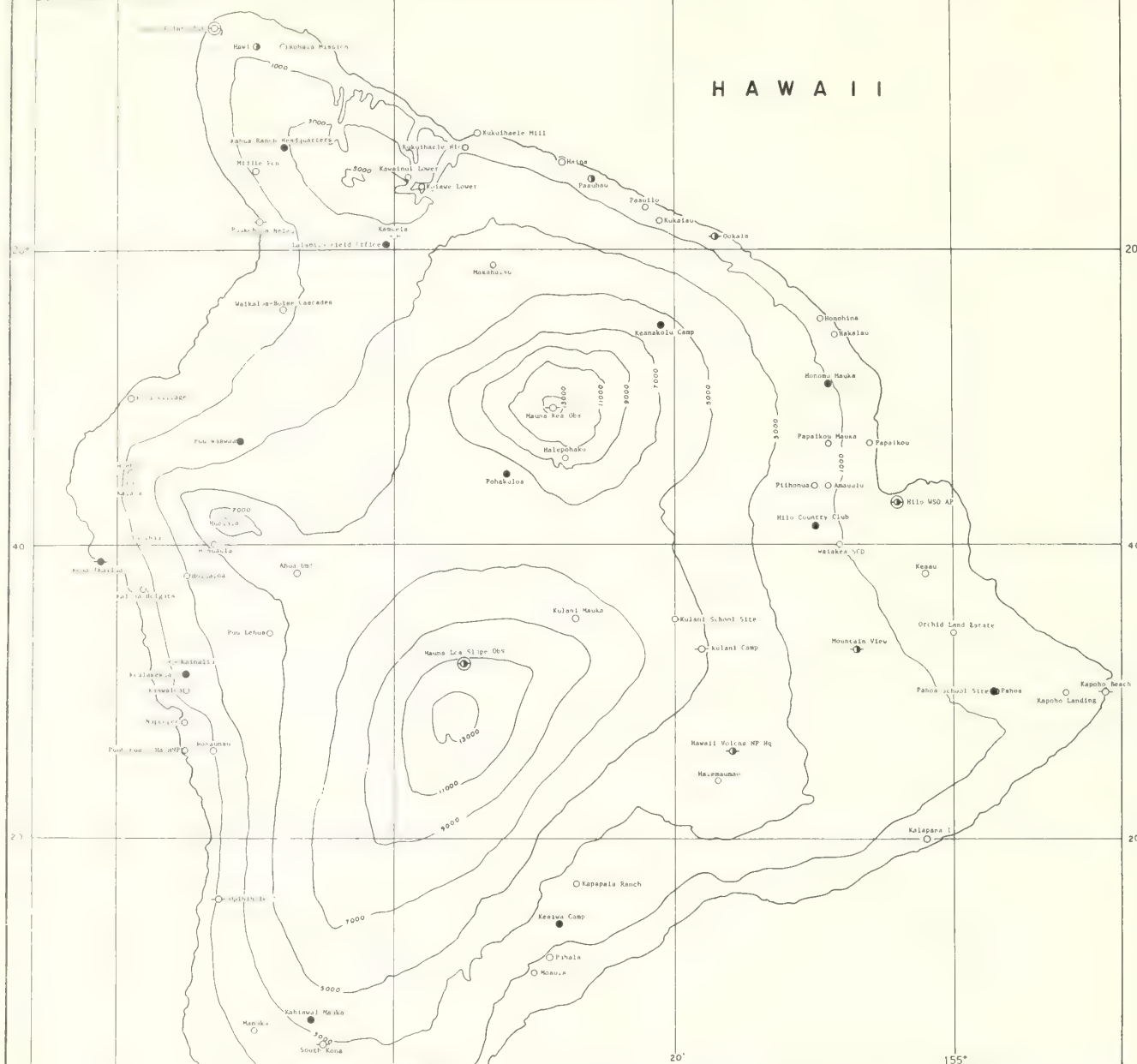
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary; \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications.
Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801
ATTN: Publications

USCOMM-NOAA-ASHEVILLE, N.C. 1981-1030



155° 40' 20' 155°

HAWAII



HAWAII

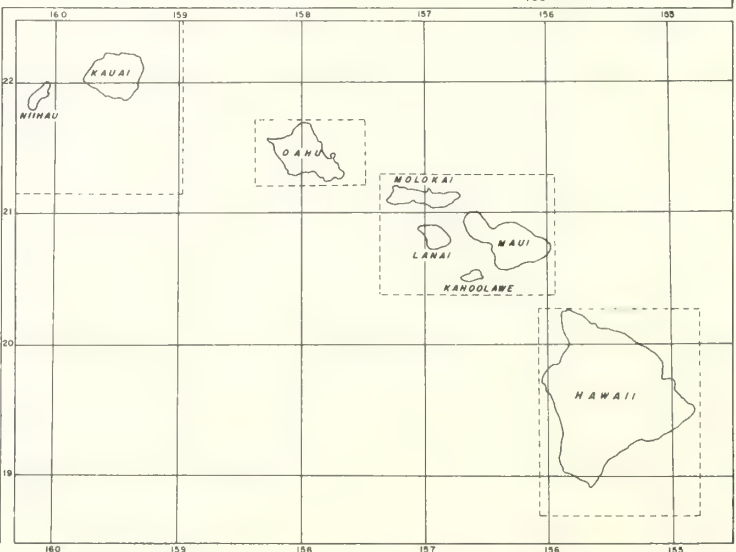
PLATE 2
STATUTE MILES

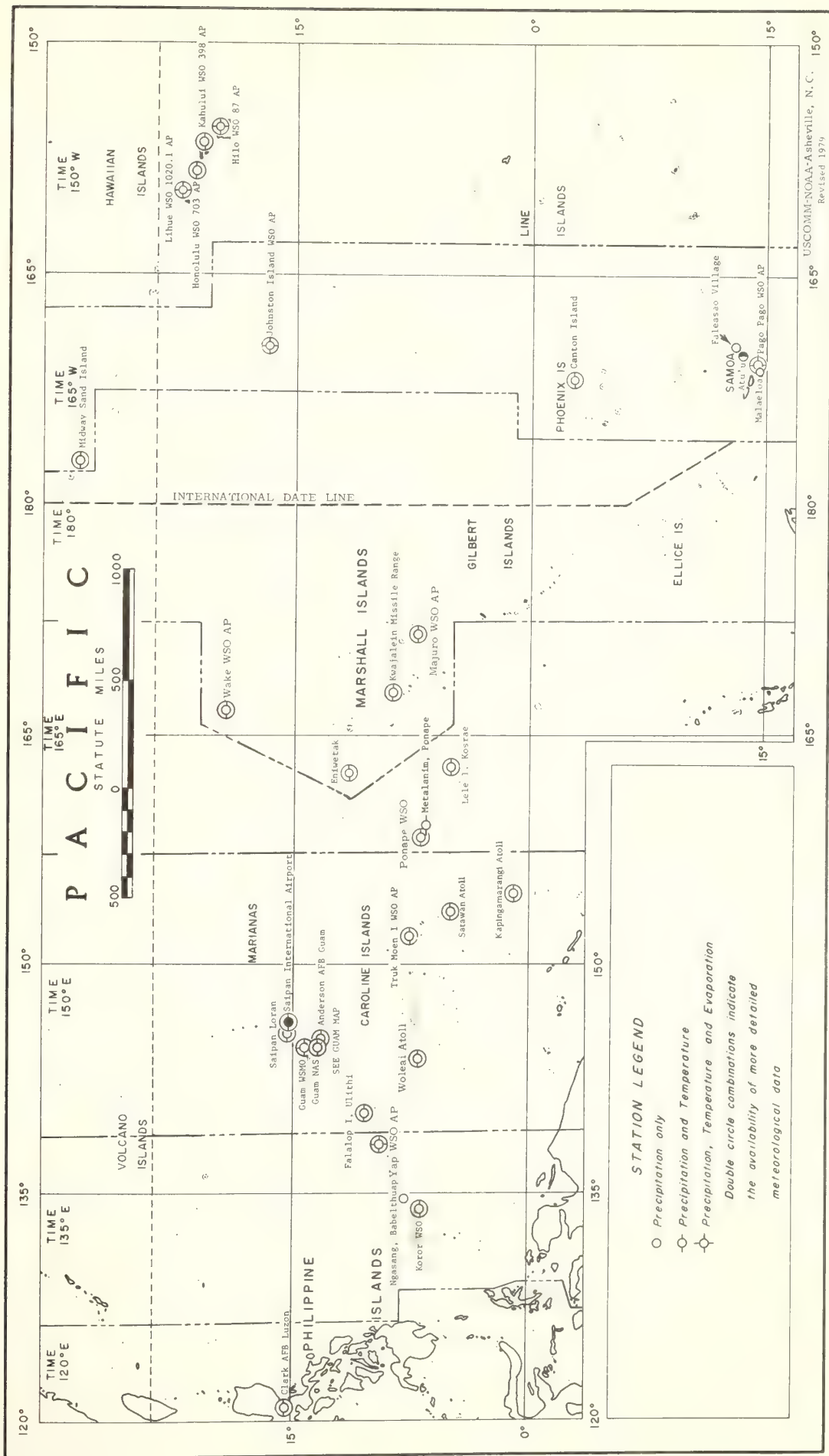


STATION LEGEND

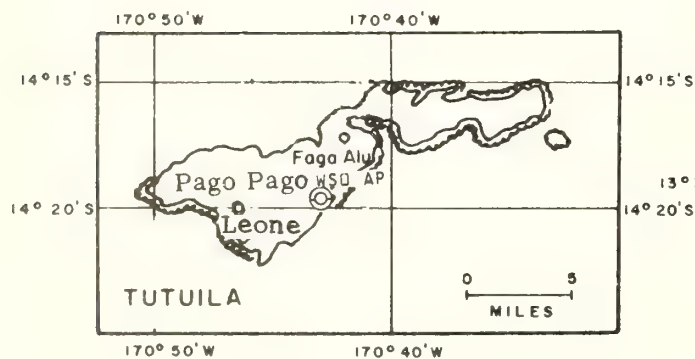
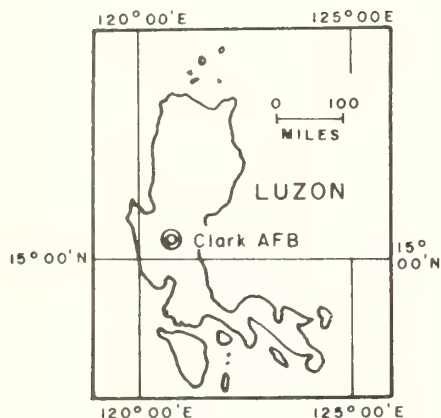
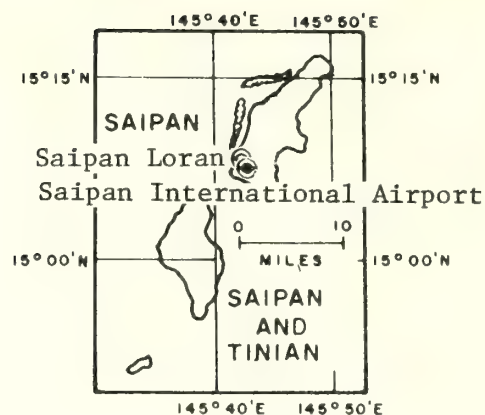
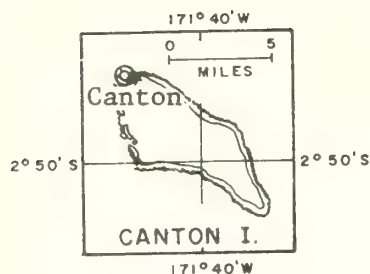
- Precipitation only
- ⊙ Precipitation, storage
- ⊕ Precipitation and Temperature
- ⊕ Precipitation, Temperature and Evaporation
- Type of gage: ○ Non-recording, ● Recording
- Both types

Double circle combinations indicate the availability of more detailed meteorological data.
All stations use 1500h meridian time.

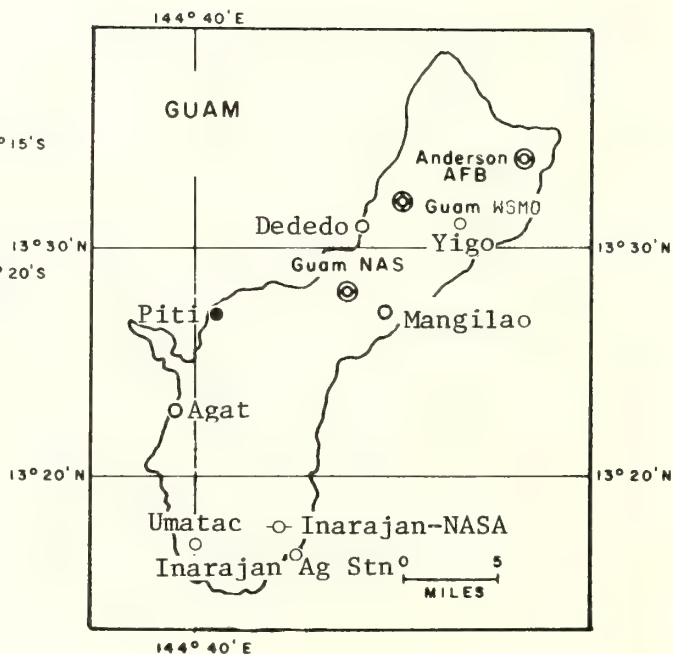


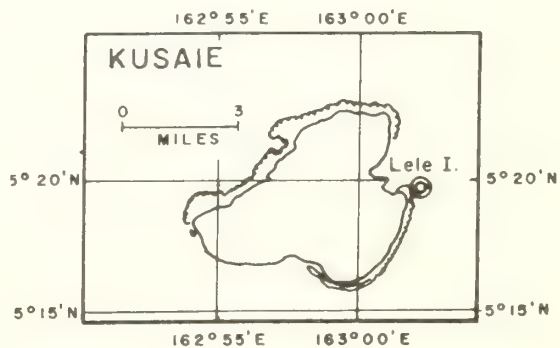
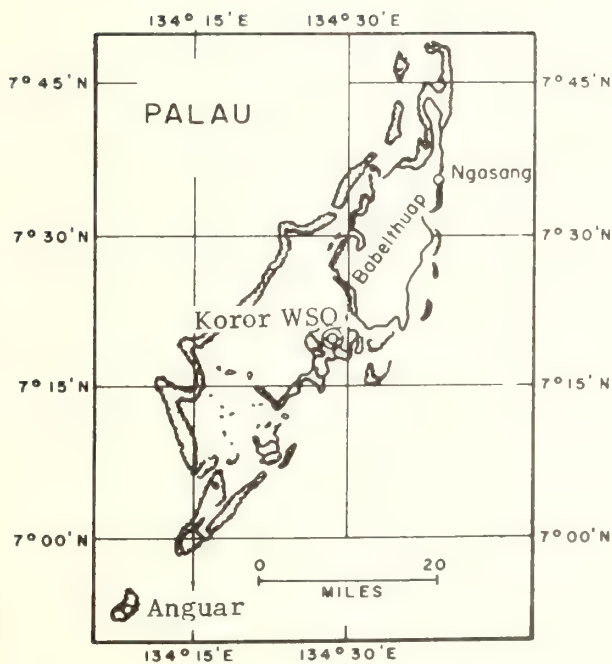
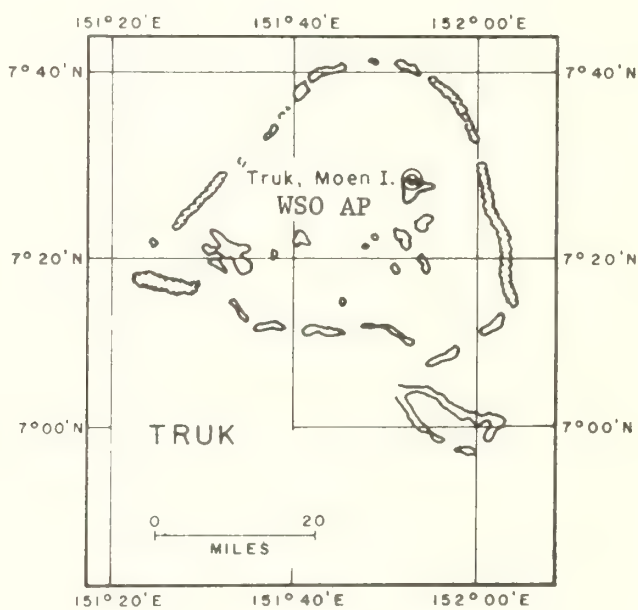
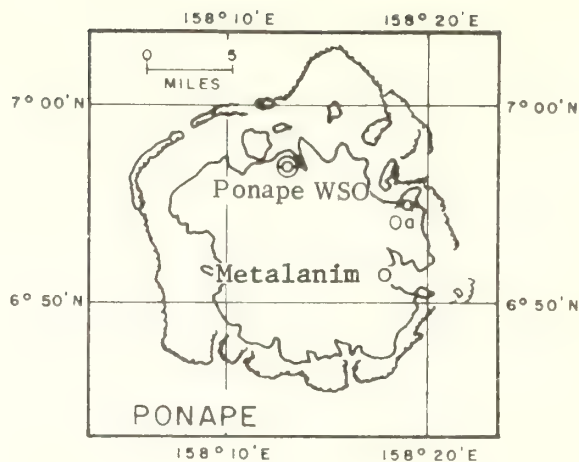
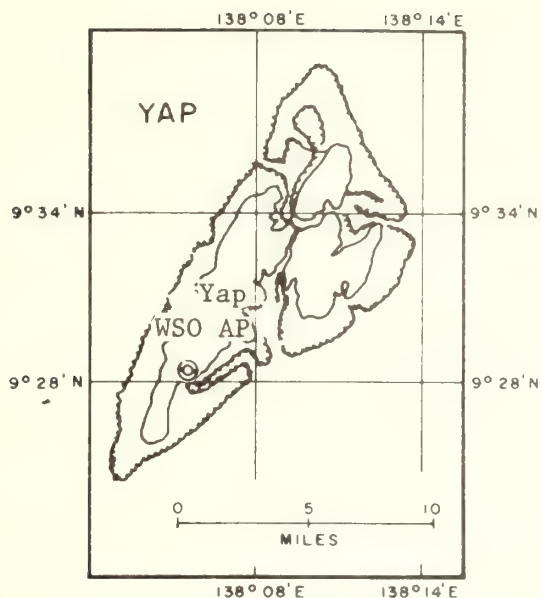


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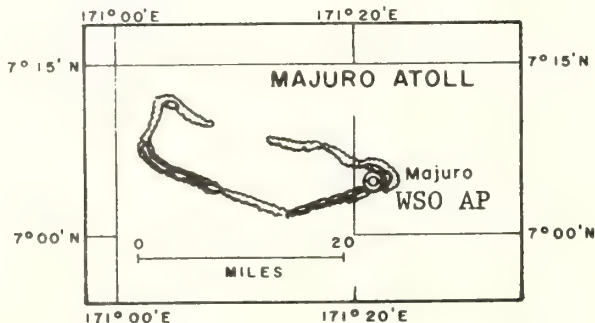
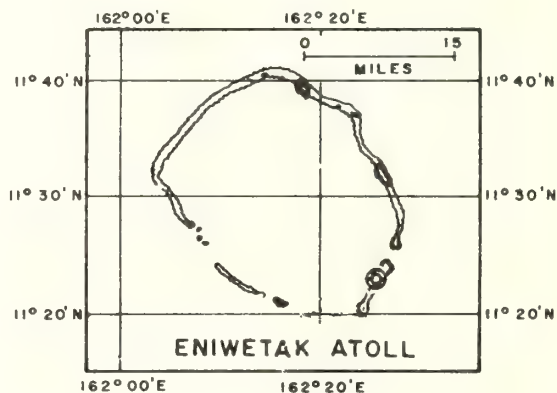
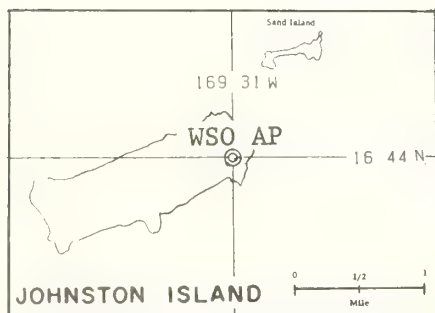
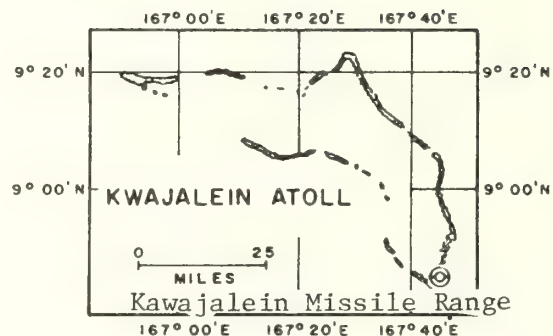
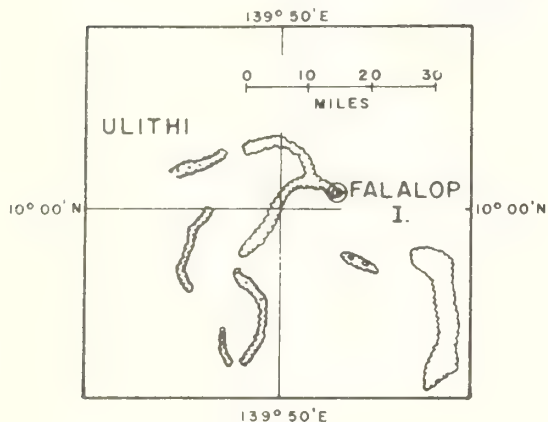
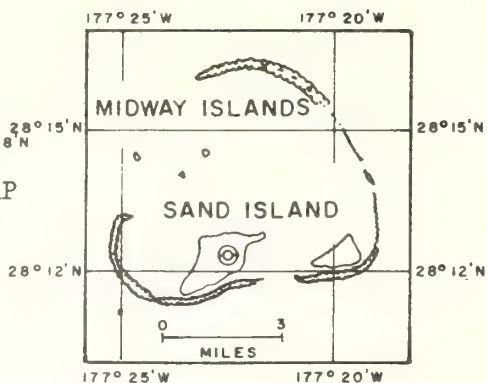
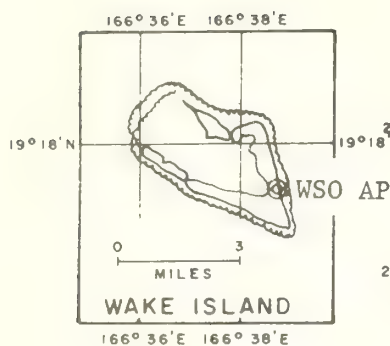


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